



FULTON COUNTY

Vision

People Families Neighborhoods

Mission

*To serve, protect and govern in concert with
local municipalities*

Values

*People Customer Services
Ethics Resource Management
Innovation Equal Opportunity*

INVITATION TO BID NO. 0649438ITBK-DJ

**S228-FULTON INDUSTRIAL BLVD. NEAR SHIRLEY
DRIVE SEWER RELOCATION**

For

DEPARTMENT OF PUBLIC WORKS

BID DUE TIME AND DATE: 11:00 A.M. April 10, 2006

PURCHASING CONTACT: Donna Jenkins at 404-730-4213

E-MAIL: donna.jenkins@co.fulton.ga.us

**LOCATION: FULTON COUNTY PURCHASING DEPARTMENT
130 PEACHTREE STREET, S.W., SUITE 1168
ATLANTA, GA 30303**

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION

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S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION**SECTION # 00020
INVITATION TO BID****Purpose:**

The Fulton County Purchasing Department solicits bids from qualified and experienced vendors for the Fulton Industrial near Shirley Drive Sewer Relocation project to establish a contract for the scope of work identified within this Invitation to bid.

Description of Project:

This project consists of relocating approximately 355 linear feet of 10-inch sewer pipe located in South Fulton in undeveloped property off of Interstate 20 at Fulton Industrial Boulevard near Shirley Drive. This project is required by EPD Consent Order EPD-WQ-4317. The existing pipe is exposed and must be replaced, sealed, abandoned and relocated to eliminate an aerial span as generally described in the Project Drawings and the site survey is complete with relocation details. (See Reference Documents – attached)

Scope of Work Summary:

This Contract shall include, but not be limited to site inspection, verification of utility locations, permitting, manhole replacement, pipe connection to existing manholes, bypass pumping, traffic control plan, site restoration, clearing, paving, safety plan and requirements to seal, abandon and relocate existing sanitary sewer line and install ductile iron pipe by the open cut method and reconnecting to existing sewer system ("Work"). The Contractor shall be responsible for quality control including testing procedures and television inspection in accordance with the Contract documents.

Purchasing the Bid Document

This document and supporting documents can be downloaded at the Fulton County Website, <http://www.co.fulton.ga.us/> under "Bid Opportunities".

Applications for documents, along with a non-refundable \$50.00 payment must be made to Department of Public Works, 141 Pryor Street, S.W., Suite 3077, Atlanta, Georgia 30303. Payment must be in the form of a certified check, treasurer's check, cashier's check, money order or company check issued by a responsible bank or trust company (no personal checks), made payable to **Parsons PM Team**. Checks returned for any reason will result in the proposal being deemed non-responsive. This amount includes all fees for printing and distribution and will be used to defray a portion of the printing cost that may have been incurred for the tendering of the Project. Partial sets of the bid document will not be issued.

For payment information, contact Carllisa Boyce, Department of Public Works at 404-893-0873. All other questions should be addressed by the procedures outlined in this ITB to Donna Jenkins, Fulton County Purchasing Department at 404-730-4213, donna.jenkins@co.fulton.ga.us.

The Instructions to Bidders, Bid, Specifications, Bid Bond, Performance Bond, Payment Bond Requirements and other Documents may be examined at the following locations:

McGraw Hill Construction Dodge
3200 Riverside Dr
STE 310
Macon, Georgia 31210

Fulton County
Public Works Department
STE 6001
141 Pryor ST, S.W., 6th Floor
Atlanta, Georgia 30303

AGC Builders Exchange
1940 The Exchange
STE 300
Atlanta, Georgia 30339

CMD / Construction Market Data
30 Technology Blvd
STE 100
Norcross Georgia 30092

FW Dodge Corporation
4170 Ashford-Dunwoody Rd
STE 200
Atlanta, Georgia 30319

Minority Business Development Agency
401 West Peachtree St
Summit Bldg STE 1715
Atlanta Georgia 30308

Term of Contract:

The Bidder agrees hereby to commence work under this Contract, with adequate personnel and equipment, on a date to be specified in a written order of the Contracting Officer and to fully complete all work under this Contract within 90 consecutive calendar days from and including said date.

No Contact Provision

It is the policy of Fulton County that the evaluation and award process for County contracts shall be free from both actual and perceived impropriety, and that contacts between potential vendors and County officials, elected officials and staff regarding pending awards of County contracts shall be prohibited.

- A. No person, firm, or business entity, however situated or composed, obtaining a copy of or responding to this solicitation, shall initiate or continue any verbal or written communication regarding this solicitation with any County officer, elected official, employee, or designated County representative, between the date of the issuance of this solicitation and the date of the County Manager's recommendation to the Board of Commissioners for award of the subject contract, except as may otherwise be specifically authorized and permitted by the terms and conditions of this solicitation.
- B. All verbal and written communications initiated by such person, firm, or entity regarding this solicitation, if same are authorized and permitted by the terms and conditions of this solicitation, shall be directed to the Purchasing Agent.
- C. Any violation of this prohibition of the initiation or continuation of verbal or written communications with County officers, elected officials, employees, or designated County representatives shall result in a written finding by the Purchasing Agent that the

submitted Bid or proposal of the person, firm, or entity in violation is "non-responsive", and same shall not be considered for award.

Bid Contact

Information regarding the bid, either procedural or technical, may be obtained by contacting Donna Jenkins, donna.jenkins@co.fulton.ga.us Assistant Purchasing Agent at 404-730-4213, Fulton County Department of Purchasing. Information regarding the bid requirements may be obtained by using the following procedure. Inquiries must be submitted in writing to;

Fulton County Purchasing Department
Attn: Donna Jenkins
130 Peachtree Street, S.W. Suite 1168
Atlanta, GA 30303
Phone: 404-730-4213
Fax: 404-335-5807
Reference Bid # 0649438ITBK-DJ

Basis of Award

The Contract, if awarded, will be awarded on a lump sum basis to the lowest responsive and responsible bidder. No bid may be withdrawn for a period of sixty (60) days after the date of bid opening except as permitted by O.C.G.A., §36-91-41 et seq., as amended. Each Bid must be accompanied by a Bid Bond in accordance with the Bid Bond Requirements provided in the Contract Documents, on a Surety Company's Standard Bid Bond Form acceptable to the County in an amount no less than 5% of the amount bid. The successful bidder will be required to furnish a Performance Bond and Payment Bond, **on or before** the issuance of Notice to Proceed, each in the amount of 100% of the Contract Amount. All other required Contract Documents must be fully completed and executed by the Contractor and his/her Surety, and submitted to the Owner **on or before** the issuance of the Notice to Proceed.

Pre-Bid Conference

Date: March 24, 2006
Time: 2:00 P.M.
Location: Fulton County Purchasing Department, Public Safety Building
130 Peachtree Street, S.W. Suite 1168
Atlanta, GA 30303

A pre-bid conference will be held in the Fulton County Purchasing Department Conference Room, located at 130 Peachtree Street, S.W. Suite 1168, Atlanta, Georgia 30303. ***Inquiries regarding the solicitation either technical or otherwise may be submitted in writing prior to the pre-bid conference and will be addressed at the pre-bid conference.*** Any additional questions asked at the pre-bid conference must be submitted in written form at the pre-bid conference and will be responded to in the form of an addendum with the County's official responses.

The Pre-bid conference will be conducted for the purpose of explaining the County's bid process, the specifications/technical documents, and to provide and initial verbal, non-binding verbal response to questions concerning these bid specifications and to discuss issues from the bidders perspective. However, no verbal response provided at the pre-bid conference binds the

County. Only those responses to written and responded to by the County in written communications will be official.

END OF SECTION # 00020

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION # 00100
INSTRUCTIONS TO BIDDERS

A. Contract Documents

The Contract Documents include the Invitation to Bid, Instructions to Bidders, Contractor's Bid (including all documentation accompanying the Bid and any post-Bid documentation required by the County prior to the Notice of Award), Bonds, all Special Conditions, General Conditions, Supplementary Conditions, Specifications, Drawings and addenda, together with written amendments, change orders, field orders and the Construction Manager's written interpretations and clarifications issued in accordance with the General Conditions on or after the date of the Contract Agreement. Shop drawing submittals reviewed in accordance with the General Conditions, geotechnical investigations and soils report and drawings of physical conditions in or relating to existing surface structures at or contiguous to the site are not Contract Documents. The Contract Documents shall define and describe the complete work to which they relate.

B. Definitions:

Where the following words or the pronouns used in their stead occur herein, they shall have the following meaning. If a conflict exists as to the meaning of a word, the definition existing in the General Conditions, if present, shall govern.

1. **"Contractor"** shall mean the party to the second part of the Contract Agreement or the authorized and legal representative of such party.
2. **"Contract Term"** shall mean the time specified in the contract for completion of the work.
3. **"County"** shall mean Fulton County, Georgia, a political subdivision of the State of Georgia, acting by and through the Chairman of its Board of Commissioners.
4. **"Change Order"** shall mean as is provided in the General Conditions.
5. **"Day"** shall mean a calendar day of twenty-four hours lasting from midnight of one day to midnight the next day.
6. **"Drawings"** shall mean, all of the drawings pertaining to the Contract and made part thereof, and also such Not For Construction drawings provided as part of this Contract. In the event of conflicting provisions, the Contract Documents will take precedence over the Drawings.
7. **"Liquidated Damages"** shall mean the amount per day specified in the Agreement, which amount shall be paid by the Contractor to the County for each act of non-compliance and/or non-performance by the Contractor in the execution of the contract.
8. **"Notice to Proceed"** shall mean a written communication issued by the County to the Contractor authorizing it to proceed with the work, establishing the date of commencement and completion of the work, and providing other direction to the Contractor.
9. **"Products"** shall mean materials or equipment permanently incorporated into the work.
10. **"Program Manager or Construction Manager"** shall mean the person or entity identified in writing by the County. The term shall be synonymous and shall mean

Program Management/Construction Management Joint Venture. The County has contracted with the Parsons PM Team to provide program planning that establishes direction and performance goals for the implementation of numerous projects contained in the County's Capital Improvements Program. The Program/Construction Manager has oversight responsibility for the execution of this project.

11. **"Provide"** shall mean to furnish and install.

12. **"Work"** shall mean all of the services specified, indicated, shown or contemplated by the contract documents, and furnishing by the Contractor of all materials, equipment, labor, methods, processes, construction and manufacturing materials and equipment, tools, plans, supplies, power, water, transportation and other things necessary to complete such services in accordance with the contract documents to insure a functional and complete facility.

C. **Bidder's Modification and Withdrawal of Bids:**

A Bidder may modify or withdraw its bid by written request, provided that the request is received by the County prior to the bid due date and time at the address to which bids are to be submitted. Provided further, that in case of an electronic request (i.e. facsimile, e-mail, etc.) a written confirmation thereof over the authorized signature of the Bidder must be received by the County at the address to which original Bids are to be submitted within three (3) calendar days after issue of the electronic message. Following withdrawal of its bid, the Bidder may submit a new, providing delivery is affected prior to the established bid opening date and time. **No bid may be withdrawn after bid due date for sixty (60) calendar days.**

D. **Addenda and Interpretations:**

No interpretations of the meaning of the Drawings, Specifications or other pre-bid documents will be made to any Bidder orally. Bidders requiring clarification or interpretation of the Bidding Documents shall make a request to Donna Jenkins no later than 5:00 PM March 31, 2006. Written requests for clarification or interpretation may be mailed, hand delivered, e-mailed, or faxed to the Assistant Purchasing Agent at the address below, e-mail address or fax number. Telephone inquiries will not be accepted.

Donna Jenkins, Assistant Purchasing Agent
Department of Purchasing
Fulton County Public Safety Building
130 Peachtree Street, S.W., 1168
Atlanta, GA 30303
Fax: 404-335-5807
donna.jenkins@co.fulton.ga.us

Only communications from firms that are in writing and signed will be recognized by the County as duly authorized expressions on behalf of proposers/bidders. Any and all such interpretations and any supplemental instructions will be in the form of written Addenda to the Specifications which, and if any addenda are issued to this Invitation to Bid.

E. **Site Examination:**

There will be no site visit for this project. However, bidders are encouraged to visit the route of the reuse main per the design drawings on their own.

Bid: All Bids must be made on the Bid forms contained herein. The Bid shall be enclosed in a sealed envelope, addressed to Department of Purchasing, Fulton County Public

Safety Building, 130 Peachtree Street, S.W., Suite 1168 Atlanta, Georgia 30303 and labeled "Bid for ITB-0649438ITBK-DJ, **FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION .**

REQUIRED SUBMITTALS: The bidder **must complete and execute** the following:

1. Bid Form
2. Bid Schedule
3. Bid Bond
4. Certification of Acceptance of Bid/Proposal Requirements
5. Corporate or Partnership Certificate
6. Non-Collusion Affidavit of Prime Bidder
7. Non-Collusion Affidavit of Subcontractor
8. Contract Compliance Forms, fully executed
 - a. Promise of Non-Discrimination (Exhibit A)
 - b. Employment Report (Exhibit B)
 - c. Schedule of Intended Subcontractor Utilization (Exhibit C)
 - d. Letter of Intent to Perform As a Subcontractor or Provide Materials or Services (Exhibit D)
 - e. Declaration Regarding subcontractor Practices (Exhibit E)
 - f. Joint Venture Disclosure Affidavit (Exhibit F)
 - g. Equal Business Opportunity (EBO) Plan

Any bids received after the stated time and date shall not be considered. It shall be the sole responsibility of the bidder to have his/her bid delivered to the Fulton County Department of Purchasing for receipt on or before the stated time and date (section 00020). If a bid is sent by U.S. Mail, the bidder shall be responsible for its timely delivery to the Purchasing Department. Bids delayed by mail will not be considered, shall not be opened, and arrangements shall be made for their return at the bidder's request and expense.

The original signed bid with three (3) copies shall be submitted in a sealed package, clearly marked on the outside "Bid for the **S228, FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION .**

F. UTILITY CONTRACTORS.

All Bidders/Proposers shall comply with the requirements of O.C.G.A. § 43-14-8.2(h) which states:

After June 30, 1994, it shall be unlawful for any contracting body to open or consider any bid for utility contracting unless the bidder has obtained the license required by this Code section or intends to have the utility contracting work performed by another person who has obtained such license. The utility contractor's license number of the person who will perform the utility work shall be written on the face of the bid envelope, unless otherwise provided. If 50 percent or more of any multifaceted project being proposed is utility work, the bidder must have obtained a utility license and his or her number must be written on the face of the bid. (Code 198, § 43-14-8.2, enacted by Ga. L. 1989, P.175, §7; Ga. L. 1993, p.123, § 31; Ga. L. 1993, p.1339, §7; Ga. L. 1994, p.1, §1; Ga. L. 1994, p. 383, §4.)

ANY BIDDER FAILING TO COMPLY WITH THE REQUIREMENTS OF PLACING ITS UTILITY CONTRACTOR'S LICENSE NUMBER ON THE FACE OF THE BID ENVELOPE SHALL BE DEEMED NON-RESPONSIVE AND ITS BID SHALL NOT BE OPENED.

Bid shall be publicly opened, with only the names and total bid price of the bidders disclosed at the opening.

G. Bid and Contract Security:

A Bid Bond for an amount equal to five percent (5%) of the bid amount must accompany each Proposal. The bid bond shall be submitted in a separate, sealed envelope marked "Bid Bond".

Bids must be accompanied by a bid bond or certified check in an amount of five percent (5%) of the TOTAL AMOUNT of the base bid. The bid bond or certified check shall apply ONLY TO THIS BID. The bid name and contract number must appear on the security instrument. The bond must remain in full force and effect until the Bidder executes the final Contract. Bids not satisfying the bonding requirements of this project will be declared non-responsive.

Any bid bond, performance bond, payment bond, or security deposit required for public works construction contract shall be approved and filed with purchasing agent. At the option of the County, if the surety named in the bond is other than a surety company authorized by law to do business in this state pursuant to a current certificate of authority to transact surety business by the Commissioner of Insurance, such bond shall not be approved and filed unless such surety is on the United States Department of Treasury's list of approved bond sureties.

A Purchasing Agent shall approve as to form and as to the solvency of the surety any bid bond, performance bond, or payment bond required by this. In the case of a bid bond, such approval shall be obtained prior to acceptance of the bid or proposal. In the case of payment bonds and performance bonds, such approval shall be obtained prior to the execution of the contract.

Whenever, in the judgment of the County:

- (1) Any surety on a bid, performance, or payment bond has become insolvent;
- (2) Any corporation surety is not longer certified or approved by the Commissioner of Insurance to do business in the state; or
- (3) For any cause there are no longer proper or sufficient sureties on any or all the bonds

The County may require the contractor to strengthen any or all of the bonds or to furnish a new or additional bond or bonds within ten days. Thereupon, if so ordered by the County, all work on the contract shall cease unless such new or additional bond or bonds are furnished. If such bond or bonds are not furnished within such time, the County may terminate the contract and complete the same as the agent of and at the expense of the contractor and his or her sureties.

As a condition of responsiveness the bidder must contain a Bid Bond for an amount equal to 5% of the bid amount. The Bid Bond shall be included in a separate envelope marked on the outside "Bid Bond". Checks or letters of credit of any type will not be accepted. A certified cashier's check will be acceptable. Provide a completed and fully

executed Bid Bond. When the bidder's package is opened, a purchasing agent will verify the presence of the Bid Bond and remove it from the Proposal Package.

If the bidder withdraws its bid from the competition after the selection of its bid for a reason not authorized by Georgia law, the County will proceed on the Bid Bond, along with any other available remedies.

The Surety of the Bid Bond shall be from a surety company authorized to do business in the State of Georgia, shall be listed in the Department of Treasury Circular 570, and shall have an underwriting limitation in excess of 100% of the bid amount. The Bonds and Surety shall be subject to approval by the County Attorney.

Attorneys-in-fact for bidders who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

H. Right to Reject Bids:

The County reserves the right to reject any or all bids and to waive informalities. No bids will be received after the time set for opening bids. Any unauthorized conditions, limitations or provisions attached to the Bid, except as provided herein, will render it informal and may cause its rejection. Unbalanced bids will be subject to rejection. Any bidder may withdraw his/her bid, either personally or by telegraphic or written request, at any time prior to the scheduled closing time for receipt of bids. Telegraphic or written requests for withdrawal must be in the possession of the County prior to the closing time for receipt of bids.

I. Applicable Laws:

All applicable laws and regulations of the State of Georgia and ordinances and regulations of Fulton County shall apply. Protestors shall seek resolution of their complaints in the manner provided in the Fulton County Code of Laws §2-324, which is incorporated by reference herein.

J. Examination of Contract Documents:

Prospective bidders shall examine the contract documents and before submitting a bid, shall make a written request to the County for an interpretation or correction of any ambiguity, in consistency or error therein which could be discovered by a bidder. At the bid opening each bidder shall be presumed to have read and be familiar with the contract documents.

K. Termination:

The County may terminate the contract resulting from this solicitation at any time the vendor fails to carry out the contract provisions, if in the opinion of the County, the performance of the contract is unreasonably delayed, or the vendor is in direct violation of the contract conditions. The County shall provide the vendor with notice of any conditions which violate or endanger the performance of the contract and, if after such notice the contractor fails to remedy such conditions within thirty (30) days, to the satisfaction of the County, the County may exercise their option in writing to terminate the Contract without further notice to the Contractor and order the Contractor to stop work immediately and vacate the premises. Vendor agrees by its bid submission that the County's decision is final and valid.

L. Indemnification and Hold Harmless Agreement:

The successful contractor will agree to indemnify, save harmless and defend the County, its agents, servants, and employees from all lawsuits, claims, demands, liabilities, losses and expenses for or on account of any injury or loss in connection with the work performed under this contract: Provided, however the Contractor shall not be liable for any damages resulting for the sole negligent or intentional acts or omission of the County and its employees, agents or representatives.

M. Bid Opening:

Bids will be opened in public and read aloud. All bidders are requested to be present at the opening.

N. Determination of Successful Bidder:

Fulton County desires to complete this work in a timely manner. The Contract will be awarded to the lowest responsive, responsible bidder(s), if awarded.

- 1) **Responsibility:** The determination of the bidder's responsibility will be made by the County based on whether the bidder meets the following minimum requirements:
 - a) The County reserves the right to reject any bid if the evidence submitted by, or investigation of, the bidder fails to satisfy the County that he/she is properly qualified to carry out the obligations of the Contract.
 - b) Is properly licensed to perform this type of work in Fulton County. Bidders must have a utility contractors license to perform this work. O.C.G.A. §43-14-8.3 (h)
 - c) Maintains a permanent place of business individually or in conjunction with the prime contractor.
 - d) Has the appropriate and adequate technical experience. Designated Project Manager must be proficient in all aspects of contracted work.
 - e) Has adequate personnel and equipment to do the work expeditiously.
 - f) Has suitable financial means to meet obligations incidental to the work.
- 2) **Responsiveness:** The determination of responsiveness will be made by the County based on a consideration of whether the bidder has submitted a complete Bid form without irregularities, excisions, special conditions, or alternative bids for any item unless specifically requested in the Bid form.

O. Wage Clause:

Pursuant to 102-391, Each Contractor shall agree that in the performance of the Contract he will comply with all lawful agreements, if any, which the Contractor had made with any association, union, or other entity, with respect to wages, salaries, and working conditions, so as not to cause inconvenience, picketing, or work stoppage.

P. Notice of Award of Contract:

As soon as possible, and within ninety (90) days after receipt of bids, the County shall notify the successful Bidder of the Award of Contract.

The award shall be made by the Board of Commissioners of Fulton County to the lowest responsive, responsible bidder(s) as soon as possible after receipt of bids, taking into consideration price and the responsiveness to the requirements set forth in the Invitation

for Bid. In such case, no claim shall be made by the selected Contractor(s) for loss of profit if the contract is not awarded or awarded for less work than is indicated and for less than the amount of his bid. The total of the awarded contract shall not exceed the available funds allocated for this project.

Should the County require additional time to award the contract, the time may be extended by mutual agreement between the County and the successful bidder. If an Award of Contract has not been made within ninety (90) days from the bid date or within the extension mutually agreed upon, the Bidder may withdraw the Bid without further liability on the part of either party.

Any award made by the Board of Commissioners as a result of this bid will begin from the date of the notice to proceed. The Bidder agrees hereby to commence work under this Contract, with adequate personnel and equipment, on a date to be specified in a written order of the Program Manager. The contract shall become effective on the Contract Date and shall continue in effect until the end of the term of the contract or until the project has been closed-out by the Program Manager unless earlier terminated pursuant to the termination provisions of the contract.

Q. Execution of Contract Documents:

Upon notification of Award of Contract, the County shall furnish the Contractor the conformed copies of Contract Documents for execution by the Contractor and Contractor's surety.

Within ten (10) days after receipt the Contractor shall return all the documents properly executed by the Contractor and the Contractor's surety. Attached to each document shall be an original power-of-attorney for the person executing the bonds for the surety and certificates of insurance for the required insurance coverage.

After receipt of the documents executed by the Contractor and his surety with the power-of-attorney and certificates of insurance, the County shall complete the execution of the documents. Distribution of the completed documents will be made upon completion.

Should the contractor and/or surety fail to execute the documents within the time specified, the County shall have the right to proceed on the Bid Bond accompanying the bid.

If the County fails to execute the documents within the time limit specified, the Contractor shall have the right to withdraw the Contractor's bid without penalty.

Should an extension of any of the time limits stated above be required, this shall be done only by mutual agreement between both parties.

Any agreement or contract resulting from the acceptance of a bid shall be on a County approved document form. The County reserves the right to reject any agreement that does not conform to the Invitation for Bid and any County requirements for agreements and contracts. The County reserves the right to modify the agreement resulting from this bid upon the recommendation of the County Attorney.

R. Joint Venture

Any Bidder intending to respond to this solicitation as a joint venture must submit an executed joint venture agreement with its offer. The agreement must designate those persons or entities authorized to execute documents or otherwise bind the joint venture in all transactions with Fulton County, or be accompanied by a document, binding upon the

joint venture and its constituent members, making such designation. Offers from joint ventures that do not include these documents will be rejected as being non-responsive.

S. Contractors Compliance With All Assurances And/Or Promises Made In Response To Procurement:

Should any Bidder submit a response to the County promising to provide a certain level of service for either the scope of work, MFBE participation, or any other matter, including where such promise or assurance is greater than what is required by the procurement documents, and should this response containing the promise or assurance be accepted by the County and made a part of the Contract Documents, then this degree or level of service promised by the bidder relating to the scope of work, MFBE participation, or other matter shall be considered to be a material part of the Agreement between the bidder and the County, such that the bidder's failure to provide the agreed upon degree or level of service or participation shall be a material breach of the Agreement giving the County just cause to terminate the Agreement for cause, pursuant to the General Conditions of the Agreement.

T. Availability Of Funding:

Any award of work, contract, or service for any portion of the S228, FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION will be conditional and subject to Fulton County obtaining financing through the issuance of water and sewer revenue bonds where the proceeds from such bonds are in an amount sufficient to fund the S228, FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION . This conditional award will not be in effect until Fulton County has been successful in raising the required funds for payment of the S228, FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION . If it proves impossible for Fulton County to raise the required funds, the conditional award will be cancelled by Fulton County without any recourse by the responding entity. The submittal of a bid in response to any phase of the procurement for the S228, FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION serves as acceptance of this condition by the entity responding to the procurement. Without waiving any of the conditions contained herein, and solely for informational purposes, please be aware that the Fulton County Board of Commissioners has taken legislative action authorizing the Fulton County Director of Finance to procure the services of the various professionals that will assist in obtaining the bond proceeds, and it is anticipated that the funding will be in place by the second or third quarter of 2006.

FULTON COUNTY PURCHASING DEPARTMENT**BID GENERAL REQUIREMENTS****0649438ITBK-DJ - S228, FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER
RELOCATION**

The following information pertains to the submission of a Bid to Fulton County, and contains instructions on how Bids must be presented in order to be considered. Listed below are the requirements for all Bidders interested in doing business with Fulton County.

1. The Bid sheets included in this Invitation to Bid ("Bid") must be fully completed and returned with the Bid unless otherwise specified in writing by the Purchasing Department. Type or neatly print the date, company name, and the full legal name and title of the person(s) signing the Bid in the place provided at the bottom of each Bid sheet. Any additional sheets submitted must contain the same signature and Bidder information.
2. Original signature(s) must appear on each page of the Bid document. All signatures must be executed by person(s) having contracting authority for the Bidder.
3. Absolutely no fax Bids or reproduction Bids will be accepted, except that photocopies may be submitted in addition to the original when multiple copies of the Bid are specifically requested in the solicitation.
4. The envelope in which the Bid response is submitted must be sealed and clearly labeled with the Bid number, project title, due date and time, and the name of the company or individual submitting the proposal. Bids must be received by the opening date and time shown on this Bid in order to be considered. The Purchasing Agent has no obligation to consider Bids which are not in properly marked envelopes. Contract Compliance submittals shall be submitted in a separate sealed envelope or package.
5. The original and the required number of copies of the Bid must be returned to:

Donna Jenkins
Fulton County Purchasing Department
130 Peachtree Street, S.W., Suite 1168
Atlanta, Georgia 30303

Any inquiries, questions, clarifications or suggestions regarding this solicitation should be submitted in writing to the Purchasing Contact Person. Contact with any other County personnel in regard to a current solicitation is strictly prohibited in accordance with Fulton County "No Contact" policy outlined in Section 35.

6. Show information and prices in the format requested. Prices are to be quoted F.O.B. Destination, and must include all costs chargeable to the Contractor executing the Contract, including taxes. Unless otherwise provided in the Contract, Fulton County shall have no liability for any cost not included in the price. The Contractor shall provide Fulton County the benefit through a reduction in price of any decrease in the Contractor's costs by reason of any tax exemption based upon Fulton County's status as a tax-exempt entity.
7. All prices Bid must be audited by the Bidder to ensure correctness before the Bid is submitted. The Bidder is solely responsible for the accuracy of information placed on

- a Bid sheet, including prices. Clerical or mathematical error is insufficient to void a successful Bid but a Bidder may withdraw a sealed Bid prior to opening without a penalty.
8. All prices must be submitted in the format requested and less all trade discounts. When multiple items are being Bid, Bidder must show both the unit price and the total extended price for each item. When applicable, the Bidder must include an additional lump sum Bid for groups or items. In the event a Bidder is offering an additional discount on groups of items, Bidder must indicate the total lump sum Bid for the particular group of items before any extra discount, the amount of extra discount, and the net total for the particular group. In the event of an extension error, unit pricing shall prevail.
 9. By submitting a signed Bid, Bidder agrees to accept an award made as a result of that Bid under the terms and conditions spelled out in the Bid documents. In the event of a conflict between the different Bid documents, the County's cover Contract (if used) shall have precedence, followed in order by the Invitation to Bid, Purchase Order, Bid, Contractor's Warranty Agreement, Maintenance Agreement, and/or other Contractor provided agreements.
 10. A Bidder may submit only one (1) Bid response for each specific Bid solicitation unless otherwise authorized in the specifications.
 11. All prices submitted by the Bidder to Fulton County must be guaranteed by the authorized person(s) against any price increase for the time period designated in the Bid specifications, and Fulton County must be given the benefit of any price decrease occurring during such designated time period.
 12. All items Bid must be new. Used, rebuilt and refurbished items will not be considered unless specifically authorized by Fulton County in the written specifications.
 13. All Bidders must specify in the Bid response the earliest actual delivery date for each item unless otherwise specified in writing by Fulton County. The delivery date may be a factor in deciding the Bidder's capability to perform.
 14. A successful Bidder's delivery ticket(s) and invoice(s) must list each item separately and must show Fulton County's purchase order number as well as the proper department and address to which delivery was made, as listed on the purchase order or in the Bidder's contract with Fulton County.
 15. Unless clearly shown as "no substitute" or words to that effect, any items in this invitation to Bid which have been identified, described or referenced by a brand name or trade name are for reference only. Such identification is intended to be descriptive but not restrictive, and is to indicate the general quality and characteristics of products that may be offered. Each item Bid must be individually identified as to whether it is a specified item or an equivalent item by typing or printing after the item(s): The brand name; model or manufacturer's number, or identification regularly used in the trade. Deviations from the specifications must be clearly and fully listed on the Bid sheet, including photographs or cuts, specifications, and dimensions of the proposed "alternate". Fulton County is the sole judge of "exact equivalent", or "alternate". The factors to be considered are: function, design, materials, construction, workmanship, finishes, operating features, overall quality, local service facilities, warranty terms and service, and other relevant features of item(s) Bid.

16. For all Bids, Fulton County reserves the right to request representative samples. If requested, samples must be delivered at the Bidder's cost within three (3) business days. Samples are submitted at the risk of the Bidder and may be subjected to destructive tests by Fulton County. Samples must be plainly tagged with Fulton County's Bid number, item name, manufacturer, and the name of the Bidder.
17. Item(s) Bid must be complete and ready to operate. No obvious omissions of components or necessary parts shall be made even though the specifications may not detail or mention them. Unit(s) must be furnished with factory installed equipment and must be comparable with the basic form, fit, and functional requirements which are all to be included in the base price as well as any other equipment included as standard by the manufacturer or generally provided to the buying public.
18. All successful Bidders must assume full responsibility for all item(s) damaged prior to F.O.B. Destination delivery and agree to hold harmless Fulton County of all responsibility for prosecuting damage claims.
19. All successful Bidders must assume full responsibility for replacement of all defective or damaged goods within thirty (30) days of notice by Fulton County of such defect or damage.
20. All successful Bidders must assume full responsibility for providing or ensuring warranty service on any and all items including goods, materials, or equipment provided to the County with warranty coverage. If a successful Bidder is not the manufacturer, all manufacturers' warranties must be passed through to Fulton County. The Bidder and not Fulton County is responsible for contacting the manufacturer of the warranty service provided during the warranty period and supervising the completion of the warranty service to the satisfaction of Fulton County.
21. As a successful Bidder providing any equipment which requires fitting and assembly, the Bidder shall be solely responsible for such installation being performed by a manufacturer's authorized or approved servicer or an experienced worker, utilizing workmanship of the highest caliber. The Bidder must verify all dimensions at the site, shall be responsible for their correctness, and shall be responsible for the availability of replacement parts when specified in writing by Fulton County in the specifications, purchase order, or other contract.
22. A successful Bidder is solely responsible for disposing of all wrappings, crating, and other disposable material upon deliver of item(s).
23. All Bidders are required to be authorized distributors or regularly engaged in the sale or distribution of the type of goods, materials, equipment or services for which the Bidder is submitting a Bid response in addition, all Bidders are required to provide Fulton County with three (3) written references documenting the successful completion of Bids or contracts for the types of items including goods, materials, equipment, or services for which the Bidder is submitting a Bid response. In instances where a Bidder has never supplied such goods, material, equipment, or services before, the Bidder must submit with the Bid response a statement and supporting documentation demonstrating such expertise, knowledge, or experience to establish the Bidder as a responsible Bidder, capable of meeting the Bid requirements should an award be made. No exceptions to this provision will be made unless authorized in the Bid specifications.

24. Bidders may be required to furnish evidence that they maintain permanent places of business of a type and nature compatible with their Bid proposal, and are in all respects competent and eligible vendors to fulfill the terms of the specifications. Fulton County may make such investigations as it deems necessary to determine the ability of the Bidder to perform such work, and reserves the right to reject any Bidder if evidence fails to indicate that the Bidder is qualified to carry out the obligation of the Contract and to complete the work satisfactorily.
25. All Bidders must comply with all Fulton County Purchasing laws, policies, and procedures, non-discrimination in contracting and procurement ordinances, and relevant state and federal laws including but not limited to compliance with EEOC hiring guidelines and requirements under the Americans with Disabilities Act. Successful Bidder must obtain all permits, licenses, and inspections as required and furnish all labor, materials, insurance, equipment, tools, supervision, and incidentals necessary to accomplish the work in these specifications.
26. If a successful Bidder is unable or unwilling to enter into a Contract with Fulton County subsequent to being granted an award, or who fails to perform in accordance with the Bid specifications the Bidder will be subject to damages and all other relief allowed by law.
27. Successful Bidders contract directly with Fulton County and are the party or parties obligated to perform. Contracts may not be assigned and any failure to perform the Contract in accordance with the specifications will constitute a breach of Contract and may result in a Bidder being found to be "non-responsive" in the future.
28. In case of default by the successful Bidder, Fulton County may procure the articles for services from another source and hold the successful Bidder responsible for any resulting excess cost.
29. The County may award any Bid in whole or in part to one or more vendors or reject all Bids and/or waive any technicalities if it is in the best interests of the County to do so. In the event that all Bids are not rejected, Bids for items including goods, materials, equipment, and services will be awarded to the lowest "responsible" Bidder(s) as determined by Fulton County. Submitting the lowest Bid, as published at the Bid opening, does not constitute an award or the mutual expectation of an award of a Contract and purchase order. For purposes of this notice and the attached Bid sheets, a purchase order is a Contract to provide items including goods, materials, equipment, and services and is intended to have the full force and effect of a Contract. A breach of the terms and conditions of a purchase order constitutes a breach of Contract.
30. Bids for projects that are solicited pursuant to the Georgia Local Government Public Works Construction Law (O.C.G.A. § 36-91-1 et seq.) may withdrawn as follows:

Competitive sealed Bids ("Bid") may not be revoked or withdrawn until 60 days after the time set by the governmental entity for opening of Bids. At the end of this time period, the Bid will cease to be valid, unless the Bidder provides written notice to the County prior to the scheduled expiration date that the Bid will be extended for a time period specified by the County.
31. In the evaluation of the Bids, any award will be subject to the Bid being:
 - A. Compliant to the specification – meets form, fit, and function requirements stated or implied in the specification.

- B. Lowest cost to the County over projected useful life.
 - C. Administratively Compliant – Including all required bonds, insurance, established quality of work and general reputation, financial responsibility, relevant experience, and related criteria.
32. All proposals and Bids submitted to Fulton County are subject to the Georgia “Open Records Act”, Official Code of Georgia, Annotated (O.C.G.A.) §50-18-70 et seq.
33. All proposals and Bids submitted to Fulton County involving Utility Contracting are subject to the Georgia law governing licensing of Utility Contractors, O.C.G.A. §43-14-8.2(h). The Utility Contractor License number of the person who will perform the utility work shall be written on the face of the Bid envelope.
34. The apparent silence of this specification, and any supplement thereto, as to details, of the omission from it of a detailed description concerning any point, will be regarded as meaning only the best commercial practices are to prevail. Only materials of the highest quality, correct type, size, and design are to be used. All interpretations of this specification will be made upon the basis of this statement, with Fulton County interpretation to prevail.
35. It is the policy of Fulton County that the evaluation and award process for County contracts shall be free from both actual and perceived impropriety, and that contacts between potential vendors and County officials, elected officials and staff regarding pending awards of County contracts shall be prohibited.
- A. No person, firm, or business entity, however situated or composed, obtaining a copy of or responding to this solicitation, shall initiate or continue any verbal or written communication regarding this solicitation with any County officer, elected official, employee, or designated County representative, between the date of the issuance of this solicitation and the date of the County Manager’s recommendation to the Board of Commissioners for award of the subject contract, except as may otherwise be specifically authorized and permitted by the terms and conditions of this solicitation.
 - B. All verbal and written communications initiated by such person, firm, or entity regarding this solicitation, if same are authorized and permitted by the terms and conditions of this solicitation, shall be directed to the Purchasing Agent.
 - C. Any violation of this prohibition of the initiation or continuation of verbal or written communications with County officers, elected officials, employees, or designated County representatives shall result in a written finding by the Purchasing Agent that the submitted Bid or proposal of the person, firm, or entity in violation is “non-responsive”, and same shall not be considered for award.
36. Any Bidder intending to respond to this solicitation as a Joint Venture must submit an executed Joint Venture Agreement with this Bid. This agreement must designate those persons or entities authorized to execute documents or otherwise bind the Joint Venture in all transactions with Fulton County, or are accompanied by a document, binding upon the Joint Venture and its constituent members, making such designation. Bids from Joint Ventures that do not include these documents will be rejected as being “non-responsive”.

37. Any Bidder intending to respond to this solicitation must complete all of the Procurement Affidavit Forms provided in this solicitation. Bids that do not include these completed documents will be rejected as being "non-responsive".

END OF SECTION # 00100

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION # 00110
BID FORM

Submitted _____, 2006.

The undersigned, as Bidder, hereby declares that the only person or persons interested in the Bid as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Bid or in the Contract to be entered into; that this Bid is made without connection with any other person, company or parties making a Bid; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the Drawings and Specifications for the work and contractual documents relative thereto, and has read all instructions to Bidders and General Conditions furnished prior to the openings of bids; that he has satisfied himself relative to the work to be performed.

The Bidder proposes and agrees, if this Bid is accepted, to contract with the Board of Commissioners of Fulton County, Atlanta, Georgia, in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary, and to complete the construction of the work in full and complete accordance with the shown, noted, and reasonably intended requirements of the Specifications and Contract Documents to the full and entire satisfaction of the Board of Commissioners of Fulton County, Atlanta, Georgia, with a definite understanding that no money will be allowed for extra work except as set forth in the attached General Conditions and Contract Documents for the following prices.

THE BASE BID IS THE AMOUNT UPON WHICH THE BIDDER WILL BE FORMALLY EVALUATED AND WHICH WILL BE USED TO DETERMINE THE LOWEST RESPONSIBLE BIDDER.

The base bid may not be withdrawn or modified for a period of sixty (60) days following the receipt of bids.

BASE BID AMOUNT (Do not include any Bid Alternates)

\$ _____

(Dollar Amount In Numbers)

(Dollar Amount in Words)

The Bidder agrees hereby to commence work under this Contract, with adequate personnel and equipment, on a date to be specified in a written order of the Contracting Officer and to fully complete all work under this Contract within **Ninety (90)** consecutive calendar days from and including said date.

The Bidder declares that he understands that the quantities shown for the unit prices items are subject to either increase or decrease, and that should the quantities of any of the items of work be increased, the Bidder proposes to do the additional work at the unit prices stated herein; and should the quantities be decreased, the Bidder also understands that payment will be made on the basis of actual quantities at the unit price bid and will make no claim for anticipated profits for any decrease in quantities; and that actual quantities will be determined upon completion of work, at which time adjustments will be made to the contract amount by direct increase or decrease.

The Bidder furthermore agrees that, in the case of a failure on his part to execute the Contract Agreement and Bonds within ten days after receipt of conformed contract documents for execution, the Bid Bond accompanying his bid and the monies payable thereon shall be paid into the funds of the Owner as liquidated damages for such failure.

The undersigned acknowledges receipt of the following addenda (list by the number and date appearing on each addendum) and thereby affirms that its Bid considers and incorporates any modifications to the originally issued Bidding Documents included therein.

| | | | |
|------------|-------|-------|-------|
| ADDENDUM # | _____ | DATED | _____ |
| ADDENDUM # | _____ | DATED | _____ |
| ADDENDUM # | _____ | DATED | _____ |
| ADDENDUM # | _____ | DATED | _____ |

BIDDER: _____

Signed by: _____
[Type or Print Name]

Title: _____

Business Address: _____

Business Phone: _____

Bidder's Contractor License No: _____
[State/County]

License Expiration Date: _____

Enclosed is a Bid Bond in the approved form, in the sum of:

_____ Dollars

(\$ _____) according to the conditions of "Instructions to Bidders" and provisions

thereof.

BASE BID AMOUNT BREAKDOWN

(A) EQUIPMENT

Provide the cost for the following items including labor, materials and installation:

| | | QUANTITY | UNIT | UNIT COST | VALUE |
|----|--|----------|------|-----------|-------|
| 1 | PIPELINES (to include bypass pumping) ABOVE GROUND REMOVAL | 200 | LF | \$ | \$ |
| 2 | OPEN CUT REMOVAL | 143 | LF | \$ | \$ |
| 3 | ABANDON IN PLACE (UNDERGROUND) | 90 | LF | \$ | \$ |
| 4 | OPEN CUT SEWER INSTALLATION | 355 | LF | \$ | \$ |
| | MANHOLES (to include bypass pumping and testing) | | | | |
| 5 | REPLACEMENT (UP TO 10 FT DEEP) | 2 | EA | \$ | \$ |
| 6 | LID SEALING | 2 | EA | \$ | \$ |
| 7 | PIPE CONNECTION TO NEW MANHOLES | 2 | EA | \$ | \$ |
| 8 | PERMITTING | 1 | LS | \$ | \$ |
| 9 | SEWER EASEMENT CLEARING | 500 | LF | \$ | \$ |
| 10 | POST CONSTRUCTION CCTV | 355 | LF | \$ | \$ |
| 11 | CONSTRUCTION EXITS/ENTRANCE | 2 | EA | \$ | \$ |
| 12 | EROSION AND SEDIMENT CONTROL (includes silt fence) | 1 | LS | \$ | \$ |
| 13 | ASPHALT PAVEMENT WORK | 1000 | SY | \$ | \$ |
| 15 | TRENCH STABILIZATION | 1 | LS | \$ | \$ |
| 16 | ROCK EXCAVATION | 1 | LS | \$ | \$ |
| 17 | SITE RESTORATION AND LANDSCAPING/ RE-SEEDING | 1 | LS | \$ | \$ |

| | |
|---------------------------|-----------|
| SUBTOTAL EQUIPMENT | \$ |
|---------------------------|-----------|

(B) ALLOWANCE

A construction allowance in the amount of \$ 25,000 will be put aside and utilized for this sewer relocation project as part of this construction contract. The allowance will only be used at the discretion of the Construction Manager.

| | |
|---------------------------|---------------------|
| SUBTOTAL ALLOWANCE | \$ 25,000.00 |
|---------------------------|---------------------|

TOTAL ITEM A THROUGH ITEM B INCLUSIVE

the amount of _____ Dollars
(\$ _____)

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION # 00300
PURCHASING FORMS & INSTRUCTIONS

This section contains the procurement forms that are required to be executed and submitted with the bid package. This section does not contain all forms required to be included with the bid package submittal.

To be deemed responsive to this ITB, Bidders must provide the information requested and complete in detail all Purchasing Forms. The appropriate individual(s) authorized to commit the Bidder to the Project must sign the Purchasing Forms. Bidders should reproduce each Purchasing Form, as required, and complete the appropriate portions of the forms provided in this section.

- Form A: Non-Collusion Affidavit of Prime Bidder
- Form B: Non-Collusion Affidavit of Sub-Contractors
- Form C: Certificate of Acceptance of Request for Bid Requirements
- Form D: Contractor License Certification
- Form E: Certification Regarding Debarment
- Form F: Corporate Certification
- Form G: Offeror's Disclosure Form and Questionnaire.

Form A – NON-COLLUSION AFFIDAVIT OF BIDDER/OFFEROR

**STATE OF GEORGIA
COUNTY OF FULTON**

I, _____ certify that pursuant to Fulton County Code Section 2-320 (11), this bid or proposal is made without prior understanding, agreement or connection with any corporation, firm or person submitting a bid for the same work, labor or service to be done or the supplies, materials or equipment to be furnished and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of state and federal law and can result in fines, prison sentences and civil damages awards. I agree to abide by all conditions of this bid or proposal and certify that I am authorized to sign this bid or proposal for the bidder.

Affiant further states that pursuant to O.C.G.A. Section 36-91-21 (d) and (e), _____ has not, by itself or with others, directly or indirectly, prevented or attempted to prevent competition in such bidding or proposals by any means whatsoever. Affiant further states that (s)he has not prevented or endeavored to prevent anyone from making a bid or offer on the project by any means whatever, nor has Affiant caused or induced another to withdraw a bid or offer for the work.

Affiant further states that the said offer of _____ is bona fide, and that no one has gone to any supplier and attempted to get such person or company to furnish the materials to the bidder only, or if furnished to any other bidder, that the material shall be at a higher price.

(COMPANY NAME)

(PRESIDENT/VICE PRESIDENT)

Sworn to and subscribed before me this _____ day of _____, 200__.

(SECRETARY/ASSISTANT SECRETARY)

(Affix corporate seal here, if a corporation)

Notary Public: _____

County: _____

Commission Expires: _____

NOTE:

IF THE OFFEROR IS A PARTNERSHIP, ALL OF THE PARTNERS AND ANY OFFICER, AGENT, OR OTHER PERSON WHO MAY HAVE REPRESENTED OR ACTED FOR THEM IN BIDDING FOR OR PROCURING THE CONTRACT SHALL ALSO MAKE THIS OATH.

IF THE OFFEROR IS A CORPORATION, ALL OFFICERS, AGENTS, OR OTHER PERSONS WHO MAY HAVE ACTED FOR OR REPRESENTED THE CORPORATION IN BIDDING FOR OR PROCURING THE CONTRACT SHALL MAKE THE OATH.

Form B – NON-COLLUSION AFFIDAVIT OF SUBCONTRACTOR

**STATE OF GEORGIA
COUNTY OF FULTON**

I, _____ certify that pursuant to Fulton County Code Section 2-320 (11), this bid or proposal is made without prior understanding, agreement or connection with any corporation, firm or person submitting a bid for the same work, labor or service to be done or the supplies, materials or equipment to be furnished and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of state and federal law and can result in fines, prison sentences and civil damages awards. I agree to abide by all conditions of this bid or proposal and certify that I am authorized to sign this bid or proposal for the bidder.

Affiant further states that pursuant to O.C.G.A. Section 36-91-21 (d) and (e), _____ has not, by itself or with others, directly or indirectly, prevented or attempted to prevent competition in such bidding or proposals by any means whatsoever. Affiant further states that (s)he has not prevented or endeavored to prevent anyone from making a bid or offer on the project by any means whatever, nor has Affiant caused or induced another to withdraw a bid or offer for the work.

Affiant further states that the said offer of _____ is bona fide, and that no one has gone to any supplier and attempted to get such person or company to furnish the materials to the bidder only, or if furnished to any other bidder, that the material shall be at a higher price.

(COMPANY NAME)

(PRESIDENT/VICE PRESIDENT)

Sworn to and subscribed before me this _____ day of _____, 200__.

(SECRETARY/ASSISTANT SECRETARY)

(Affix corporate seal here, if a corporation)

Notary Public: _____

County: _____

Commission Expires: _____

NOTE:

IF THE OFFEROR IS A PARTNERSHIP, ALL OF THE PARTNERS AND ANY OFFICER, AGENT, OR OTHER PERSON WHO MAY HAVE REPRESENTED OR ACTED FOR THEM IN BIDDING FOR OR PROCURING THE CONTRACT SHALL ALSO MAKE THIS OATH.

IF THE OFFEROR IS A CORPORATION, ALL OFFICERS, AGENTS, OR OTHER PERSONS WHO MAY HAVE ACTED FOR OR REPRESENTED THE CORPORATION IN BIDDING FOR OR PROCURING THE CONTRACT SHALL MAKE THE OATH.

**Form C – FULTON COUNTY CERTIFICATE OF ACCEPTANCE OF BID/PROPOSAL
REQUIREMENTS**

This Is To Certify That On This Day Bidder/Proposer Acknowledges That He/She Has Read This Bid Document, Pages _____ To _____ Inclusive, Including Addendum(s) ____ To ____, And/Or Appendices ____ To ____, In Its Entirety, And Agrees That No Pages Or Parts Of The Document Have Been Omitted, That He/She Understands, Accepts And Agrees To Fully Comply With The Requirements Therein, And That The Undersigned Is Authorized By The Bidding/Proposing Company To Submit The Bid/Proposal Herein And To Legally Obligate The Bidder/Proposer Thereto.

Company:

Signature:

Name:

Title:

Date:

(Corporate Seal)

Form D – CONTRACTOR’S GEORGIA UTILITY LICENSE CERTIFICATION

S228 – Fulton Industrial Blvd. Near Shirley Drive Sewer Relocation

NOTE: The Utility Contractor’s License Number is also required on the Bid Envelope.

Contractor’s Name: _____

Bidder’s Georgia Utility Contractor’s License Number: _____

Expiration Date of License: _____

I certify that the above information is true and correct and that the classification noted is applicable to the Bid for this Project.

Signed: _____

Printed: _____

Date: _____

(ATTACH COPY OF LICENSE)

Form E – CERTIFICATION REGARDING DEBARMENT

1. The Offeror certifies that neither it or its subcontractors is presently debarred, suspended, proposed for debarment, declared ineligible, or otherwise excluded from doing business with any government agency. Any such exclusion may cause prohibition of your firm from participating in any procurement by the Fulton County Government.
2. If the Offeror is unable to certify to any of the statements in this certification, such Offeror or subcontractor shall attach an explanation to this bid or proposal.

INSTRUCTIONS FOR CERTIFICATION

By signing and submitting this certification, the Offeror is providing the certification set out below:

1. The certification in this clause is a material representation of fact upon which reliance will be placed. If it is later determined that the prospective vendor knowingly rendered a false certification, the Purchasing Agent may pursue all available remedies, including suspension and/or debarment, for withdrawal of award or termination of a contract.
2. The prospective Offeror shall provide immediate written notice to the Purchasing Agent if at anytime the Offeror learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
3. Offeror shall be under a continuing duty to immediately inform the Purchasing Agent in writing of any changes, if as a result of such changes, the Offeror certification regarding debarment is affected.

DEBARMENT ORDINANCE

The following Section 2-322 of Fulton County Code of Laws establishes the procedure for the debarment of contractors.

(a) Authority to suspend.

After reasonable notice to the entity involved and reasonable opportunity for that entity to be heard, the Purchasing Agent, after consultation with user department, the County Manager and the County Attorney shall have the authority to suspend an entity for cause from consideration for award of county contracts. As used in this section, the term entity means any business entity, individual, firm, contractor, subcontractor or business corporation, partnership, limited liability corporation, firm, contractor, subcontractor or business structured; provided, further, that any such entity shall also be subject to suspension under this section if any of its constituents, members, subcontractors at any tier of such entity's and the entity, or any constituent or member, knew or should have known of the commission of the act. The suspension shall be for a period not to exceed three (3) years unless cause is based on a felony conviction for an offense related or associated with fraudulent contracting or misappropriation of funds wherein the suspension shall not exceed seven (7) years.

(b) Causes for Suspension. The causes for suspension include:

- 1) Conviction for commission of a criminal offense as an incident to obtain or attempting to obtain a public or private contract or subcontract, or in performance of such contract or subcontract;
- 2) Conviction of state or federal statutes of embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property or other offense indicating

a lack of business integrity or business honesty which currently, seriously and directly affects responsibility as a county contractor.

- 3) Conviction of state or federal anti-trust statutes arising out of the solicitation and submission of bids and proposals;
- 4) Violation of contract provisions, as set forth below, of a character which is regarded by the Purchasing Agent to be so serious as to justify suspension action:
 - a. Failure to perform in accordance with the specifications within a time limit provided in a county contract;
 - b. A recent record of failure to perform or unsatisfactory performance in accordance with the terms of one or more contracts; provided, that failure to perform or unsatisfactory performance caused by acts beyond the control of the contractor shall not be considered to be a basis for suspension;
 - c. Material representation of the composition of the ownership or workforce or business entity certified to the county as a minority business enterprise; or
 - d. Falsification of any documents.
- 5) For violation of the ethical standards set forth in Fulton County Code Chapter 9, Code of Ethics.
- 6) Knowing misrepresentation to the county, of the use which a majority owned contractor intends to make a minority business enterprise (a business entity at least 51 percent of which is owned and controlled by minority persons, as defined in Fulton County Code Chapter 6, Article B, Minority

Business Enterprise Affirmative Action Program and certified as such by the County) as a subcontractor or a joint venture partner, in performing work under contract with the County.

Failure to fully and truthfully provide the information required, may result in the disqualification of your bid/proposal from consideration or termination of the Contract, once awarded. This document must be completed and included as a part of the bid/proposal package along with other required documents.

[SIGNATURES ON NEXT PAGE]

Under penalty of perjury, I declare that I have examined this certification and all attachments hereto, if applicable, to the best of my knowledge and belief, and all statements contained hereto are true, correct, and complete.

On this _____ day of _____, 2006

(Legal Name of Offeror) (Date)

(Signature of Authorized Representative) (Date)

(Title)

Form F – CORPORATE CERTIFICATE

Corporations

I, _____, certify that I am the Secretary of the Corporation named as Contractor in the foregoing Bid; that _____, who signed said Bid on behalf of the Contractor was then _____ of said Corporation; that said Bid was duly signed for and on behalf of said Corporation by authority of its Board of Directors, and is within the scope of its corporate powers; that said Corporation is organized under the laws of the State of _____.

This _____ day of _____, 20 ____

(SEAL) must be affixed

Partnership or other entities:

I, _____, certify that I am authorized to sign to commit _____ named as Contractor in the foregoing Bid. That said company is formed under the laws of the State of _____.

This _____ day of _____, 20 ____ .

It is necessary to attach a letter on company letterhead and dated on or after the date of this certificate that the individual signing to commit the partnership or other entity not a corporation to the stipulations of this bid is authorized to do so. The letter should be signed by an individual working for the company who has knowledge of this fact.

Form G – OFFEROR’S DISCLOSURE FORM AND QUESTIONNAIRE

S228 – Fulton Industrial Blvd. Near Shirley Drive Sewer Relocation

1. Please provide the names and business addresses of each of the Offeror’s firm’s officers and directors.

For the purposes of this form, the term “Offeror” means an entity that responds to a solicitation for a County contract by either submitting a proposal in response to a Request for Proposal or a Request for Qualification or a Bid in response to an Invitation to Bid.

Describe accurately, fully and completely, their respective relationships with said Offeror, including their ownership interests and their anticipated role in the management and operations of said Offeror.

2. Please describe the general development of said Offeror's business during the past five (5) years, or such shorter period of time that said Offeror has been in business.
3. Please state whether any employee, agent or representative of said Offeror who is or will be directly involved in the subject project has or had within the last five (5) years: (i) directly or indirectly had a business relationship with Fulton County; (ii) directly or indirectly received revenues from Fulton County; or (iii) directly or indirectly receives revenues from the result of conducting business on Fulton County property or pursuant to any contract with Fulton County. Please describe in detail any such relationship.

LITIGATION DISCLOSURE:

Failure to fully and truthfully disclose the information required, may result in the disqualification of your bid or proposal from consideration or termination of the Contract, once awarded.

1. Please state whether any of the following events have occurred in the last five (5) years with respect to said Offeror. If any answer is yes, explain fully the following:
 - (a) whether a petition under the federal bankruptcy laws or state insolvency laws was filed by or against said Offeror, or a receiver fiscal agent or similar officer was appointed by a court for the business or property of said Offeror;
 - (b) whether Offeror was subject of any order, judgment, or decree not subsequently reversed, suspended or vacated by any court of competent jurisdiction, permanently enjoining said Offeror from engaging in any type of business practice, or otherwise eliminating any type of business practice; and

- (c) whether said Offeror's business was the subject of any civil or criminal proceeding in which there was a final adjudication adverse to said Offeror, which directly arose from activities conducted by the business unit or corporate division of said Offeror which submitted a bid or proposal for the subject project. If so please explain.
2. Have you or any member of your firm or team to be assigned to this engagement ever been indicted or convicted of a criminal offense within the last five (5) years?
- Circle One: YES NO
3. Have you or any member of your firm or team been terminated (for cause or otherwise) from any work being performed for Fulton County or any other Federal, State or Local Government ?
- Circle One: YES NO
4. Have you or any member of your firm or team been involved in any claim or litigation adverse to Fulton County or any other federal, state or local government, or private entity during the last three (3) years?
- Circle One: YES NO
5. Has any offeror, member of offeror's team, or officer of any of them (with respect to any matter involving the business practices or activities of his or her employer), been notified within the five (5) years preceding the date of this offer that any of them are the target of a criminal investigation, grand jury investigation, or civil enforcement proceeding?
- Circle One: YES NO

If you have answered "YES" to any of the above questions, please indicate the name(s) of the person(s), the nature, and the status and/or outcome of the information, indictment, conviction, termination, claim or litigation, the name of the court and the file or reference number of the case, as applicable. Any such information should be provided on a separate page, attached to this form and submitted with your proposal.

NOTE: If any response to any question set forth in this questionnaire has been disclosed in any other document, a response may be made by attaching a copy of such disclosure. (For example, said Offeror's most recent filings with the Securities and Exchange Commission ("SEC") may be provided if they are responsive to certain items within the questionnaire.) However, for purposes of clarity, Offeror should correlate its responses with the exhibits by identifying the exhibit and its relevant text.

Disclosures must specifically address, completely respond and comply with all information requested and fully answer all questions requested by Fulton County. Such disclosure must be

submitted at the time of the bid or proposal submission and included as a part of the bid/proposal submitted for this project. Disclosure is required for Offerors, joint venture partners and first-tier subcontractors.

Failure to provide required disclosure, submit officially signed and notarized documents or respond to any and all information requested/required by Fulton County can result in the bid/proposal declared as non-responsive. This document must be completed and included as a part of the bid/proposal package along with other required documents.

[SIGNATURES ON NEXT PAGE]

Under penalty of perjury, I declare that I have examined this questionnaire and all attachments hereto, if applicable, to the best of my knowledge and belief, and all statements contained hereto are true, correct, and complete.

On this _____ day of _____, 2006

(Legal Name of Proponent) (Date)

(Signature of Authorized Representative) (Date)

(Title)

Sworn to and subscribed before me,

this _____ day of _____, 2006

(Notary Public) (Seal)

Commission Expires _____
(Date)

END OF SECTION # 00300

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION**SECTION # 00310****BID BOND**

No bid for a contract in Fulton County for work to be done shall be valid for any purpose unless the Contractor shall give a Bid Bond with good and sufficient surety payable to, in favor of, and for the protection of Fulton County. The Bid Bond shall be in the amount of not less than 5% of the total amount payable by the terms of the Contract. No bid shall be read aloud or considered if a proper bid bond has not been submitted.

Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Georgia.

Attestation for the corporation must be by the corporate officer; for a partnership by another partner; for an individual by a notary with the corporate seal.

BID BOND**S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
FULTON COUNTY GOVERNMENT**

KNOW ALL MEN BY THESE PRESENTS, THAT WE _____

_____ hereinafter called the PRINCIPAL, and _____

_____ hereinafter call the SURETY, a corporation chartered and existing under the laws of the State of _____ and duly authorized to transact Surety business in the State of Georgia, are held and firmly bound unto the Fulton County Government, in the penal sum of _____ Dollars and Cents (\$_____) good and lawful money of the United States of America, to be paid upon demand of the Fulton County Government, to which payment well and truly to be made we bind ourselves, our heirs, executors, and administrators and assigns, jointly and severally and firmly by these presents.

WHEREAS the PRINCIPAL has submitted to the Fulton County Government, for S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION , a Bid;

WHEREAS the PRINCIPAL desires to file this Bond in accordance with law:

NOW THEREFORE: The conditions of this obligation are such that if the Bid be accepted, the PRINCIPAL shall within ten (10) calendar days after receipt of written notification from the COUNTY of the award of the Contract execute a Contract in accordance with the Bid and upon the terms, conditions and prices set forth therein, in the form and manner required by the Fulton County Government, and execute sufficient and satisfactory Performance and Payments Bonds payable to the Fulton County Government, each in the amount of one hundred (100%) percent of the total contract price in form and with security satisfactory to said Fulton County Government, then this obligation to be void; otherwise, to be and remain in full force and virtue in law; and the SURETY shall upon failure of the PRINCIPAL to comply with any or all of the foregoing requirements within the time specified above immediately pay to the Fulton County Government, upon demand the amount hereof in good and lawful money of the United States of America, not as a penalty but as liquidated damages.

In the event suit is brought upon this Bond by the COUNTY and judgment is recovered, the SURETY shall pay all costs incurred by the COUNTY in such suit, including attorney's fees to be fixed by the Court.

Enclosed is a Bid Bond in the approved form, in the amount of:

_____ Dollars

(\$_____) being in the amount of five (5%) percent of the CONTRACT Sum.

The money payable on this bond shall be paid to the Fulton County Government, for the failure of the Bidder to execute a CONTRACT within ten (10) days after receipt of the Contract form and at the same time furnish a Payment Bond and Performance Bond.

IN TESTIMONY THEROF, the PRINCIPAL and SURETY have caused these presents to be duly signed and sealed this _____ day of _____, 2006.

(Signatures on next page)

ATTEST:

PRINCIPAL

(SEAL) BY _____

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _____, certify that I am the Secretary of the Corporation named as principal in the within bond; that _____, Who signed the said bond of said corporation; that I know this signature, and his/her signature thereto is genuine; and that said bond was duly signed, sealed and attested for in behalf of said Corporation by authority of its governing body.

SECRETARY

(CORPORATE SEAL)

SURETY

(SEAL) BY _____

END OF SECTION # 00310

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION

SECTION # 00400

CONTRACT COMPLIANCE REQUIREMENTS

Policy Statement: It is the policy of Fulton County Government that discrimination against businesses by reason of the race, color, gender or national origin of the Ownership of any such business is prohibited. Furthermore, it is the policy of the Board of Commissioners (Board) that Fulton County Government and all vendors and contractors doing business with Fulton County shall provide to all businesses the opportunity to participate in contracting and procurement paid, in whole or in part, with monetary appropriations of the Board without regard to the race, color, gender or national origin of the Ownership of any such business. Similarly, it is the policy of Fulton County Government that the contracting and procurement practices of Fulton County Government should not implicate Fulton County as either an active or passive participant in the discriminatory practices engaged in by private contractors seeking to obtain contracts with Fulton County.

Equal Business Opportunity Plan (EBO Plan): In addition to the proposal submission requirements, each vendor must submit an Equal Business Opportunity Plan (EBO Plan) with the bid/proposal. The EBO Plan is designed to enhance the utilization of a particular racial, gender or ethnic group by a bidder/proposer, contractor, vendor or by Fulton County. The respondent must outline a plan of action to encourage and achieve diversity and equality in the available procurement and contracting opportunities with this solicitation.

The Plan must identify and include:

1. Potential opportunities within the scope of work of this solicitation that will allow for participation of racial, gender or ethnic groups.
2. Efforts that will be made by the bidder/proposer to encourage and solicit minority and female businesses utilization in this solicitation.

Fulton County encourages joint ventures, teaming, partnering and mentor-protégé relationships with minority and female businesses in an effort to achieve contracting and procurement diversity.

Prompt Payment: The prime contractor must certify in writing and must document on the Department of Contract Compliance's Exhibit G Form (Prime Contractor/Subcontractor Utilization Report) that all subcontractors, sub-consultants and suppliers have been promptly paid for work and materials and previous progress payments received (less any retainage by the prime contractor prior to receipt of any further progress payments). In the event the prime contractor is unable to pay subcontractors, sub-consultants or suppliers until receipt of a payment from Fulton County, the prime contractor shall pay funds due from said progress payments within forty-eight (48) hours of receipt of payment from Fulton County and in no event later than fifteen (15) days as provided for by state law.

COMPLIANCE PROCEDURES:

In order to be compliant with the intent and provisions of the Fulton County Non-Discrimination in Purchasing and Contracting Ordinance (99-0960), **bidders/proposers must submit the following completed documents.** Failure to provide this information shall result in the bid/proposal being deemed non-responsive:

- **Exhibit A** - Promise of Non-Discrimination
- **Exhibit B** - Employment Report
- **Exhibit C** - Schedule of Intended Subcontractor Utilization
- **Exhibit D** - Letter of Intent to Perform As a Subcontractor or Provide Materials or Services
- **Exhibit E** - Declaration Regarding Subcontractor Practices, (if applicable)
- **Exhibit F** - Joint Venture Disclosure Affidavit, (if applicable)
- **Equal Business Opportunity Plan (EBO Plan)** – This document is not a form. It is a statement created by the bidder/proposer on it's company letterhead addressing the EBO Plan requirements.

All Contract compliance documents (Exhibits A-F and the EBO Plan) are to be placed in a **separate sealed** envelope clearly marked “**Contract Compliance**”. The EBO Plan must be submitted on company letterhead. These documents are considered a part of and should be submitted with the Technical Proposal.

The following document **must** be completed as instructed if awarded the bid:

- **Exhibit G** - Prime Contractor's Subcontractor Utilization Report

END OF SECTION # 00400

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION

SECTION # 00400A

EXHIBIT A – PROMISE OF NON-DISCRIMINATION

“Know all persons by these presents, that I/We (_____),
Name

_____ Title

_____ Firm Name

Hereinafter “Company”, in consideration of the privilege to bid on or obtain contracts funded, in whole or in part, by Fulton County, hereby consent, covenant and agree as follows:

- 1) No person shall be excluded from participation in, denied the benefit of, or otherwise discriminated against on the basis of race, color, national origin or gender in connection with any bid submitted to Fulton County for the performance of any resulting there from,
- 2) That it is and shall be the policy of this Company to provide equal opportunity to all businesses seeking to contract or otherwise interested in contracting with this Company without regard to the race, color, gender or national origin of the ownership of this business,
- 3) That the promises of non-discrimination as made and set forth herein shall be continuing in nature and shall remain in full force and effect without interruption,
- 4) That the promise of non-discrimination as made and set forth herein shall be made a part of, and incorporated by reference into, any contract or portion thereof which this Company may hereafter obtain,
- 5) That the failure of this Company to satisfactorily discharge any of the promises of non-discrimination as made and set forth herein shall constitute a material breach of contract entitling the Board to declare the contract in default and to exercise any and all applicable rights and remedies, including but not limited to cancellation of the contract, termination of the contract, suspension and debarment from future contracting opportunities, and withholding and/or forfeiture of compensation due and owing on a contract; and
- 6) That the bidder shall provide such information as may be required by the Director of Contract Compliance pursuant to Section 4.4 of the Fulton County Non-Discrimination in Purchasing and Contracting Ordinance.

SIGNATURE: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

END OF SECTION # 00400A

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION

SECTION # 00400B

EXHIBIT B – EMPLOYMENT REPORT

The demographic employment make-up for the bidder/proposer **must** be identified and submitted with this bid/proposal. In addition, if subcontractors will be utilized by the bidder/proposer to complete this project, then the demographic employment make-up of the subcontractor(s) must be identified and submitted with this bid.

EMPLOYEES

| CATEGORY | NATIVE AMERICAN | | AFRICAN AMERICAN | | ASIAN AMERICAN | | HISPANIC AMERICAN | | CAUCASIAN AMERICAN | | OTHER | |
|-------------------|-----------------|---|------------------|---|----------------|---|-------------------|---|--------------------|---|-------|---|
| | M | F | M | F | M | F | M | F | M | F | M | F |
| Male/Female | | | | | | | | | | | | |
| Mgmt/Official | | | | | | | | | | | | |
| Professional | | | | | | | | | | | | |
| Supervisors | | | | | | | | | | | | |
| Office / Clerical | | | | | | | | | | | | |
| Craftsmen | | | | | | | | | | | | |
| Laborers | | | | | | | | | | | | |
| Other (specify) | | | | | | | | | | | | |
| TOTALS | | | | | | | | | | | | |

FIRM'S NAME: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

This completed form is for (Check one) _____ Bidder/Proposer _____
Subcontractor

Submitted by: _____ Date Completed: _____

END OF SECTION # 00400B

EXHIBIT C – SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION

SECTION # 00400C

EXHIBIT C - SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION

If the bidder/proposer intends to subcontract any portion of this scope of work/service(s), this form **must be** completed and **submitted with the bid/proposal**. All prime bidders/proposers **must** include Letter(s) of Intent (Exhibit D) in the bid document for all subcontractors who will be utilized under the scope of work/services.

Prime Bidder/Proposer: _____

ITB/RFP Number: _____

Project Name or Description of Work/Service(s): _____

1. My firm, as Prime Bidder/Proposer on this scope of work/service(s) is _____ is not _____ a minority or female owned and controlled business enterprise. (Please indicate below the portion of work, including, percentage of bid/proposal amount that your firm will carry out directly):

2. If the Prime Bidder/Proposer is a Joint Venture, please complete Exhibit F: Joint Venture Disclosure Affidavit and attach a copy of the executed Joint Venture Agreement.

3. Sub-Contractors (including suppliers) to be utilized in the performance of this scope of work/service(s), if awarded, are:

SUBCONTRACTOR NAME: _____

ADDRESS: _____

PHONE: _____

CONTACT PERSON: _____

ETHNIC GROUP*: _____ COUNTY

CERTIFIED** _____

WORK TO BE PERFORMED: _____

DOLLAR VALUE OF WORK: \$ _____ PERCENTAGE VALUE: _____ %

***Ethnic Groups: African American (AABE); Asian American (ABE); Hispanic American (HBE); Native American (NABE); White Female American (WFBE); **If yes, please attach copy of recent certification.**

EXHIBIT C – SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION

EXHIBIT C - SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION

SUBCONTRACTOR NAME: _____
ADDRESS: _____
PHONE: _____
CONTACT PERSON: _____
ETHNIC GROUP*: _____ COUNTY CERTIFIED** _____
WORK TO BE PERFORMED: _____
DOLLAR VALUE OF WORK: \$ _____ PERCENTAGE VALUE: _____ %

SUBCONTRACTOR NAME: _____
ADDRESS: _____
PHONE: _____
CONTACT PERSON: _____
ETHNIC GROUP*: _____ COUNTY CERTIFIED** _____
WORK TO BE PERFORMED: _____
DOLLAR VALUE OF WORK: \$ _____ PERCENTAGE VALUE: _____ %

SUBCONTRACTOR NAME: _____
ADDRESS: _____
PHONE: _____
CONTACT PERSON: _____
ETHNIC GROUP*: _____ COUNTY CERTIFIED** _____
WORK TO BE PERFORMED: _____
DOLLAR VALUE OF WORK: \$ _____ PERCENTAGE VALUE: _____ %

SUBCONTRACTOR NAME: _____
ADDRESS: _____
PHONE: _____
CONTACT PERSON: _____
ETHNIC GROUP*: _____ COUNTY CERTIFIED** _____
WORK TO BE PERFORMED: _____
DOLLAR VALUE OF WORK: \$ _____ PERCENTAGE VALUE: _____ %

***Ethnic Groups: African American (AABE); Asian American (ABE); Hispanic American (HBE); Native American (NABE); White Female American (WFBE); **If yes, please attach copy of recent certification.**

EXHIBIT C – SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION

EXHIBIT C - SCHEDULE OF INTENDED SUBCONTRACTOR UTILIZATION

Total Dollar Value of Subcontractor Agreements: (\$)

Total Percentage Value: (%)

CERTIFICATION: The undersigned certifies that he/she has read, understands and agrees to be bound by the Bid/Proposer provisions, including the accompanying Exhibits and other terms and conditions regarding sub-contractor utilization. The undersigned further certifies that he/she is legally authorized by the Bidder/Proposer to make the statement and representation in this Exhibit and that said statements and representations are true and correct to the best of his/her knowledge and belief. The undersigned understands and agrees that if any of the statements and representations are made by the Bidder/Proposer knowing them to be false, or if there is a failure of the intentions, objectives and commitments set forth herein without prior approval of the County, then in any such event the Contractor's acts or failure to act, as the case may be, shall constitute a material breach of the contract, entitling the County to terminate the Contract for default. The right to so terminate shall be in addition to, and in lieu of, any other rights and remedies the County may have for other defaults under the contract.

Signature: _____ **Title:** _____

Firm or Corporate Name: _____

Address:

Telephone: () _____

Fax Number: () _____

Email Address: _____

END OF SECTION # 00400C

EXHIBIT D – LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR
OR PROVIDE MATERIALS OR SERVICES

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION

SECTION # 00400D

EXHIBIT D

**LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR OR PROVIDE MATERIALS
OR SERVICES**

This form **must** be completed by **ALL** known subcontractor and submitted with the bid/proposal. The Prime Contractor **must** submit Letters of Intent for **ALL** known subcontractors at time of bid submission.

To:

(Name of Prime Contractor Firm)

From:

(Name of Subcontractor Firm)

ITB/RFP Number:

Project Name:

The undersigned is prepared to perform the following described work or provide materials or services in connection with the above project (specify in detail particular work items, materials, or services to be performed or provided):

| Description of Work | Project Commence Date | Project Completion Date | Estimated Dollar Amount |
|---------------------|-----------------------------|-------------------------------|-------------------------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

(Prime Bidder)

(Subcontractor)

Signature_____

Signature_____

Title_____

Title_____

Date_____

Date_____

END OF SECTION # 00400D

EXHIBIT E – DECLARATION REGARDING SUBCONTRACTING PRACTICES

S228 – BUTTERFIELD LANE SEWER REPLACEMENT

SECTION # 00400E

EXHIBIT E - DECLARATION REGARDING SUBCONTRACTING PRACTICES

If the bidder/proposer **does not intend to subcontract** any portion of the scope of work services(s), this form **must be** completed and submitted with the bid/proposal.

_____ hereby declares that it is my/our intent to
(Bidder)

perform 100% of the work required for _____
(ITB/RFP Number)

(Description of Work)

In making this declaration, the bidder/proposer states the following:

1. That the bidder/proposer does not customarily subcontract elements of this type project, and normally performs and has the capability to perform and will perform **all elements** of the work on this project with his/her own current work forces;
2. If it should become necessary to subcontract some portion of the work at a later date, the bidder/proposer will comply with all requirements of the County's Non-Discrimination Ordinance in providing equal opportunities to all firms to subcontract the work. The determination to subcontract some portion of the work at a later date shall be made in good faith and the County reserves the right to require additional information to substantiate a decision made by the bidder/proposer to subcontract work following the award of the contract. Nothing contained in this provision shall be employed to circumvent the spirit and intent of the County's Non-Discrimination Ordinances;
3. The bidder will provide, upon request, information sufficient for the County to verify Item Number one.

AUTHORIZED COMPANY REPRESENTATIVE

Name: _____ **Title:** _____ **Date:** _____

Signature: _____

Firm: _____

Address: _____

Phone Number: _____

Fax Number: _____

Email Address: _____

END OF SECTION # 00400E

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION

SECTION # 00400F

EXHIBIT F - JOINT VENTURE DISCLOSURE AFFIDAVIT

ITB/RFP No. _____

Project Name _____

This form must be completed and submitted with the bid/proposal if a joint venture approach is to be undertaken.

In order to evaluate the extent of small, minority and female business involvement being proposed by a Bidder/Proposer, certain relevant information must be provided prior to contract award. The information requested below is to clearly identify and explain the extent of small business participation in the proposed joint venture. All items must be properly addressed before the business entity can be evaluated.

1. Firms:

1) Name of Business: _____

Street Address: _____

Telephone No.: _____

Nature of Business: _____

2) Name of Business: _____

Street Address: _____

Telephone No.: _____

Nature of Business: _____

3) Name of Business: _____

Street Address: _____

Telephone No.: _____

Nature of Business: _____

NAME OF JOINT VENTURE (If applicable): _____

ADDRESS:

PRINCIPAL OFFICE: _____

OFFICE PHONE: _____

EXHIBIT F – JOINT VENTURE DISCLOSURE AFFIDAVIT

Note: Attach additional sheets as required

1. Describe the capital contributions by each joint venturer and accounting thereof.
2. Describe the financial controls of the joint venture, e.g., will a separate cost center be established? Which venturer will be responsible for keeping the books? How will the expense therefore be reimbursed? What is the authority of each joint venture to commit or obligate the order?
3. Describe any ownership, options for ownership, or loans between the joint ventures. Identify terms thereof.
4. Describe the estimated contract cash flow for each joint venturer.
5. To what extent and by whom will the on-site work be supervised?
6. To what extent and by whom will the administrative office be supervised?
7. Which joint venturer will be responsible for material purchases including the estimated cost thereof? How will the purchase be financed?
8. Which joint venturer will provide equipment? What is the estimated cost thereof? How will the equipment be financed?
9. Describe the experience and business qualifications of each joint venturer.
10. Submit a copy of all joint venture agreements and evidence of authority to do business in the State of Georgia as well as locally, to include all necessary business licenses.
11. Percent of Minority/Female Business Enterprises ownership by each joint venture in terms of profit and loss sharing:

12. The authority of each joint venturer to commit or obligate the other: _____

EXHIBIT F – JOINT VENTURE DISCLOSURE AFFIDAVIT

13. Number of personnel to be involved in project, their crafts and positions and whether they are employees of the Minority/Female Business Enterprises enterprise, the majority firm or the joint venture:
- _____
- _____
- _____
14. Identification of control and participation in venture; list those individuals who are responsible for day-to-day management and policy decision-maker, including, but not limited to, those with prime responsibility for areas designated below; (use additional sheets if necessary)

| | | | Financial | Supervision |
|-------------|-------------|------------|------------------|-------------------------|
| <u>Name</u> | <u>Race</u> | <u>Sex</u> | <u>Decisions</u> | <u>Field Operations</u> |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

In connection with any work that these firms, as a joint venture, might be authorized to perform in connection with above captioned contract, we each do hereby authorize representatives of the Fulton County Department of Contract Compliance, Departments of Purchasing and Finance, under the direction of the County Manger's Office, to examine, from time to time, the books, records and files to the extent that such relate to this County project.

EXHIBIT F – JOINT VENTURE DISCLOSURE AFFIDAVIT

WE DO SOLEMNLY DECLARE AND AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE CONTENTS OF THE FOREGOING DOCUMENT ARE TRUE AND CORRECT, AND THAT WE ARE AUTHORIZED, ON BEHALF OF THE ABOVE FIRMS, TO MAKE THIS AFFIDAVIT AND GRANT THE ABOVE PRIVILEGE.

FOR _____
(Company)

Date: _____
(Signature of Affiant)

(Printed Name)

(Company)

Date: _____
(Signature of Affiant)

(Printed Name)

State of _____:

County of _____:

On this _____ day of _____, 20____, before me, appeared _____, the undersigned known to me to be the person described in the foregoing Affidavit and acknowledge that he (she) executed the same in the capacity therein stated and for the purpose therein contained.

END OF SECTION # 00400F

EXHIBIT G – PRIME CONTRACTOR/SUB-CONTRACTOR UTILIZATION REPORT

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION

SECTION # 00400G

EXHIBIT – G PRIME CONTRACTOR/SUB-CONTRACTOR UTILIZATION REPORT

This report **must** be submitted by the **tenth day** of each month, along with a copy of your monthly invoice (schedule of values/payment application) to Contract Compliance. Failure to comply **shall** result in the County commencing proceedings to impose sanctions to the prime contractor, in addition to pursuing any other available legal remedy. Sanctions may include the suspending of any payment or part thereof, termination or cancellation of the contract, and the denial of participation in any future contracts awarded by Fulton County.

| | | | |
|-------------------------|--|--------------------------|--|
| REPORTING PERIOD | | PROJECT NAME: | |
| FROM: | | PROJECT NUMBER: | |
| TO: | | PROJECT LOCATION: | |

| PRIME CONTRACTOR | | Contract Award Date | Contract Award Amount | Change Order Amount | Contract Period | % Complete to Date |
|---------------------|--|---------------------|-----------------------|---------------------|-----------------|--------------------|
| Name: | | | | | | |
| Address: | | | | | | |
| Telephone #: | | | | | | |

AMOUNT OF REQUISITION THIS PERIOD: \$ _____
TOTAL AMOUNT REQUISITION TO DATE: \$ _____

SUBCONTRACTOR UTILIZATION (add additional rows as necessary)

| Name of Sub-Contractor | Description of Work | Contract Amount | Amount Paid To Date | Amount Requisition This Period | Contract Period | |
|------------------------|---------------------|-----------------|---------------------|--------------------------------|-----------------|-------------|
| | | | | | Starting Date | Ending Date |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| TOTALS | | | | | | |

Executed By: _____ (Signature) _____ (Printed Name)

Notary: _____ Date: _____

My Commission Expires: _____

END OF SECTION # 00400G

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION**SECTION # 00500****INSURANCE REQUIREMENTS****1.1 OWNER-CONTROLLED INSURANCE PROGRAM****1.1.1 INTRODUCTION**

Fulton County has implemented an Owner-Controlled Insurance Program ("OCIP") that covers this Project. Certain relevant provisions of the County's OCIP are outlined below. This OCIP does not affect Fulton County Government's statutory immunity. Under the OCIP, the County shall **furnish certain portions** of the Workers' Compensation, General Liability, and Builder's Risk insurance associated with the County's construction projects. Insurance furnished under the OCIP covers the County, the Contractor and its Sub-Contractors of all tiers (with some exceptions, as described below), and other persons or interests as the County may designate in connection with the performance of the Work. As detailed below, the **Contractor** still provides certain other portions of insurance coverage not included in the OCIP.

1.1.2 DEFINITIONS SPECIFIC TO SECTION

1.1.2.1 "Owner-Controlled Insurance Program" (OCIP) means an insurance delivery method that assures the Contractor, and its Sub-Contractors of all tiers, and other persons or interests as the County may designate in connection with the performance of the work are insured for certain prescribed Statutory Workers' Compensation, Employers Liability and Commercial General Liability, and such other coverages as the County may in writing specifically add or delete for the Project.

1.1.2.2 "OCIP Administrator" means the administrator retained by the County to implement and administer the OCIP. The OCIP Administrator is Resurgens Risk Management/Willis.

1.1.2.3 The term "enrolled" applies to the entities covered under the OCIP. The Contractor is enrolled in the OCIP. The Contractor's Sub-Contractors of all tiers shall be enrolled in the OCIP, provided in general that they are performing construction work at the Project site and that the work being performed is not temporary to the project and is an elemental component of the completed project. The Contractor shall assure that all enrolled Sub-Contractors of all tiers satisfy all safety program obligations, claim management and applicable insurance requirements relative to the OCIP. The Contractor understands that all Contractor obligations set forth in the County's OCIP, whether performed directly by the Contractor or indirectly by its enrolled Sub-Contractors, are the responsibility of the Contractor. Whenever this Agreement establishes obligations for Contractor with respect to the OCIP, it shall also be deemed to establish obligations for enrolled Sub-Contractors. Certain exceptions apply to enrolled entities, as described below.

1.1.2.4 The term “non-enrolled” applies to the entities not covered under the OCIP. In general vendors, suppliers, fabricators, material dealers, drivers and others who merely transport, pick up, deliver or carry materials, personnel, parts or equipment or any other items or persons to or from the Project site shall be considered non-enrolled entities for the purpose of insurance coverage under the County’s OCIP. This non-enrolled OCIP Contractor status also applies to those contractors whose only work is temporary to the site and who are not involved in any project construction that is part of the work on the finished project. The Contractor shall assure that all non-enrolled Sub-Contractors of all tiers satisfy all safety program obligations, claim management and applicable insurance requirements relative to the OCIP.

1.1.2.5 “Agent” means the Fulton County’s designated Representative, as defined within this Agreement. For purposes of the OCIP, the County’s designated Representative shall serve as the County’s primary contact for communication with the Contractor related to the OCIP.

1.1.3 INSURANCE OBLIGATIONS OF THE COUNTY AND CONTRACTOR

1.1.3.1 INSURANCE PROVIDED BY THE COUNTY UNDER ITS OCIP.

(a) The County shall secure and thereafter maintain, except as otherwise provided herein, the insurance coverages described in Subparagraphs 1.1.3.2, 1.1.3.3, and 1.1.3.4 below, covering as insured parties the County, the Contractor and its Sub-Contractors of all tiers (except as detailed below), and such other persons or interests as the County may designate in connection with the performance of the Work, and with limits not less than those specified for each coverage (“OCIP insurance coverage”).

(b) No insurance coverage provided by the County’s OCIP shall extend to the activities or products of the following:

(i) Any person and/or organization that fabricates and/or manufactures products, materials, and/or supplies away from the Project site(s).

(ii) Any non-enrolled architect, engineer or surveyor and their consultants except where required by the Contract Documents.

(iii) Truckers, material-delivery, vendors, suppliers, and operators (as independent contractors), whose operation(s) and/or employee(s) is/are engaged solely in the loading, hauling and/or unloading of material, supplies and/or equipment to or from the Project site(s).

(iv) Any employee(s) of the Contractor or an enrolled or non-enrolled Sub-Contractor of any tier, including employee(s) of truckers, material-delivery, vendors, suppliers, and operators (as independent contractors), which is/are engaged solely in the loading, hauling and/or unloading of material, supplies and/or equipment to or from the Project site(s).

(v) Any employee(s) of the Contractor or an enrolled Sub-Contractor of any tier that does not work and/or generate payroll at the Project site(s).

(vi) Any employee(s) of the Contractor or an enrolled Sub-Contractor of any tier, not specifically required to perform Work at the Project site(s), that occasionally

visits the Project site(s) to make deliveries, pick up supplies and/or personnel, to perform supervisory and/or progress inspections, or for any other reason.

(vii) Any other entity specifically to be determined by the County to be excluded.

(viii) Any leased or temporary laborers.

(c) Unless herein otherwise specifically indicated, the policies set forth in Subparagraphs 1.1.3.2, 1.1.3.3 and 1.1.3.4 below shall cover only those operations of the insured parties performed at the Project site or sites incidental to the Work called for in this Owner-Contractor Agreement.

(d) The County assumes no obligation to provide insurance other than that evidenced by the policies referred to in Subparagraphs 1.1.3.2, 1.1.3.3 and 1.1.3.4. Furthermore, any obligation of the County to provide insurance under its OCIP is expressly limited to the insurance referred to in Subparagraphs 1.1.3.2, 1.1.3.3 and 1.1.3.4. The County, however, reserves the right to furnish insurance coverage of various types and limits, provided that such coverage shall not be less than that specified below (so long as such insurance and limits are reasonably available in the insurance market) and provided that the costs of such insurance shall be borne by the County.

1.1.3.2 WORKERS' COMPENSATION INSURANCE

Workers' Compensation insurance in statutory limits of the Workers' Compensation laws of the State of Georgia, with Coverage B - Employer's Liability, to limits of not less than one million dollars (\$1,000,000) covering operations of the insured parties at the Project site. Coverage under the Broad Form All States extension is also included. This insurance is primary for all occurrences at the Project site.

1.1.3.3 LIABILITY INSURANCE (EXCLUDING MOTOR VEHICLE LIABILITY)

(a) Liability insurance (excluding Motor Vehicle Liability) under a Commercial General Liability insurance policy and covering the insured parties in connection with the performance of the Work at the Project site, including hazards of operations (explosion, collapse and underground exposures), independent contractors, employees as additional insureds, completed operations (for 5 years after final completion of the Work), contractual liability coverage (for contracts related to the Work), personal injury liability coverage, and excess Employer's Liability coverage for claims arising out of the Work hereunder, for personal injury, bodily injury, and property damage, in policies of insurance such that the total available limits to all insureds combined will not be less than twenty-five million dollars (\$25,000,000) combined single limits for each occurrence and aggregates, as applicable.

(b) Notwithstanding the actual policy deductible, the Contractor shall be liable for a deductible not to exceed five thousand dollars (\$5,000) each occurrence, to the extent losses payable are attributable to, involve, or relate to the performance, actions, errors, omissions, or negligence of the Contractor or its Sub-Contractors,

uninsured parties, or any other entity or person for whom it may be responsible. The Contractor's deductible shall include the costs of defense, including court costs and attorneys' fees of a covered OCIP claim and shall not be construed to affect the Contractor rights to indemnify the County under the contract. All such deductibles shall be collected as part of the Contract close-out process and final payment.

- (c) The insurance provided under the OCIP will not extend coverage for products liability to any insured party or uninsured party. However, Products/Completed Operations liability arising from manufacturing or assembly of items manufactured or assembled at the Project site, as required by the contract, is covered.

1.1.3.4 ALL RISK BUILDER'S RISK, INCLUDING TRANSIT

- (a) All Risk Builder's Risk, including transit and installation risks, insuring the interest of the County, the Contractor and its Sub-Contractors, providing coverage on an All Risk basis, including, but not limited to, coverage against flood, fire, lightning, wind damage, hail, explosion, riot or civil commotion, aircraft and other vehicles, and collapse.
- (b) The policies for such insurance will be secured and maintained by the County in a form and amount as determined by Fulton County. The amount may be amended depending on the amount of a specific project.
- (c) Coverage will include materials, supplies and equipment that are intended for specific installation in the Work while such materials, supplies and equipment are located at the Project site, in transit or while temporarily located away from the Project site for the purpose of repair, adjustment or storage at the risk of one of the insured parties.
- (d) Except as otherwise provided in Subparagraph 1.1.3.4(c), this insurance will not include coverage for tools or clothing of workers, or tools, equipment, protective fencing, scaffolding, temporary structures, coffer damming, pipe stulling or bracing, or forms owned, rented or used by the Contractor, its Sub-Contractors, or uninsured parties and used in the performance of the Work, unless such items are specifically identified in this Agreement and their values declared under the Builder's Risk insurance policy.
- (e) The County, its officers, agents, employees and consultants rendering services at the Project site, and the OCIP Administrator will not be liable or responsible for loss or damage to the items excluded in Subparagraph 1.1.3.4(d), and the Contractor shall indemnify and hold harmless the County, its officers, agents, employees, its consultants rendering services at the Project site, the OCIP Administrator, and other Project contractors and their Sub-Contractors from claims or causes of action brought by any person or parties as a result of loss or damage to such excluded items.
- (f) The Builder's Risk policy will be endorsed waiving the carrier's rights of recovery under subrogation against the County, its officers, agents, employees and consultants rendering services at the Project site, the OCIP Administrator, and the

Contractor and its Sub-Contractors, whose respective interests are insured under such policy.

- (g) Notwithstanding the actual policy deductible, the Contractor shall be liable for a deductible not to exceed five thousand dollars (\$5,000) each occurrence for all perils excluding theft and mysterious disappearance, and twenty-five thousand dollars (\$25,000) each occurrence for theft and mysterious disappearance. All such deductibles shall be collected as part of the Contract close-out process and final payment.

1.1.3.5 CONTRACTOR RETAINS VARIOUS OBLIGATIONS

Nothing contained herein, or in any document referenced herein, shall relieve, limit or be construed to relieve or limit the Contractor, its Sub-Contractors or uninsured parties of responsibility or obligations otherwise imposed by the Contract. The OCIP shall not be construed as limiting, among other things:

- (a) The extent to which the Contractor may be held legally responsible for damages to persons or property.
- (b) The Contractor's indemnity obligations under this Agreement.

1.1.3.6 CONTRACTOR RESPONSIBILITY TO REPAIR DEFECTIVE OR DAMAGED WORK

- (a) Notwithstanding the provisions of this Agreement, and until final acceptance of the Work by the County, the Contractor shall have full and complete charge and care of the Work or any portion thereof (including the Owner-furnished supplies, material, equipment or other items to be utilized or incorporated in the Work).
- (b) The Contractor shall rebuild, repair, restore and make good losses of, and injuries or damages to, the Work or any portion thereof (including the Owner-furnished supplies, material, equipment or other items to be utilized with, or incorporated in, the Work and which are in the Project site) before final acceptance of the Work. Such rebuilding, repair or restoration shall be at the Contractor's sole cost and expense provided, however, the County will make available applicable proceeds from the Builder's Risk policy provided by the County, as specified in Section 1.1.3.4.

1.1.3.7 ADDITIONAL INSURED

The Additional Insured on the County's OCIP policies shall include Fulton County; the County's officers, agents, employees, and consultants; the OCIP Administrator; and Contractors, including their Sub-Contractors of any tier (but excluding suppliers, vendors, material-delivery, truckers or haulers) whom Fulton County has contracted with and for whom the County has agreed to furnish coverage under the OCIP.

1.1.3.8 OWNER'S RIGHT TO AUDIT

- (a) The Contractor hereby warrants to the County the accuracy of the information provided on the OCIP Insurance Information Form submitted with its bid, and

agrees that the County, its officers, agents, insurance carriers and the OCIP Administrator may audit the records of the Contractor and its Sub-Contractors to confirm the accuracy of the information provided, including, but not limited to, the accuracy of all estimated payrolls, and to ascertain any effect on insurance resulting from changes in the Work. The audit will be held during the Contractor's normal business hours at the office of the Contractor or at another mutually agreeable location.

- (b) The County shall be entitled to credits in OCIP insurance premiums that may accrue as a result of the audit.
- (c) The Contractor shall maintain or cause to be maintained sufficient records as may be necessary to audit its compliance and its Sub-Contractors' compliance with the requirements of the OCIP.

1.1.3.9 ASSIGNMENT

The Contractor and each of its Sub-Contractors of any tier shall assign to the County all return premiums, premium refunds, dividends and other monies due or to become due in connection with the insurance provided by the County. The Contractor and its Sub-Contractors of any tier shall execute such other further documentation as may be required by the County to effectuate this assignment.

1.1.3.10 OCIP CLAIMS

The Contractor, its Sub-Contractors and uninsured parties shall assist the County, its agents, and the OCIP Administrator and provide the utmost cooperation in the adjustment of claims arising out of the operations conducted under, or in connection with, the Work and shall cooperate with the County's insurance carriers in claims and demands that arise out of the Work and that the insurance carriers are called upon to adjust or resist.

1.1.3.11 LIMITATIONS ON OCIP COVERAGES

Although the scope of coverages afforded under this program may provide coverage beyond the scope required by the Owner-Contractor Agreement in the absence of an OCIP, the County makes no warranty or representation that such broad coverage will remain in effect throughout the duration of the Work. The County further does not warrant or represent that the OCIP coverages constitute an insurance portfolio, which adequately addresses all the risk faced by the Contractor or its Sub-Contractor(s). The Contractor and Sub-Contractors of every tier shall satisfy themselves as to the existence, extent and adequacy of the OCIP coverages prior to the commencement of the Work. The cost to obtain any "extra" coverages shall be the responsibility of the Contractor. The County shall not assume any responsibility for the premium cost of any "extra" insurance. The County shall issue Certificates of Insurance and make available copies of specimen insurance policies at the time of the Notice to Proceed.

1.1.3.12 ALTERNATIVE INSURANCE

In the event the County, after commencement of the Work, is unable to furnish, or elects not to furnish or to continue to furnish, the insurance coverage herein described, and upon 30 days written notice from the County, the following shall be required:

- (a) The Contractor shall secure and maintain all, or as much of the insurance herein described, as the County designates, at the County's expense, and the County will thereafter no longer be obligated to furnish such insurance.
- (b) All insurance secured by the Contractor or its Sub-Contractors pursuant to this subparagraph shall be in policies subject to the prior written approval of the County as to form, content, limits of liability, cost and issuing company as outlined in the "Base Bid" version of this Section 00500, i.e., as if the OCIP had not been implemented for the Project.

1.1.3.13 PROCEDURES AND SERVICES

The Contractor shall fully comply with, and shall require its Sub-Contractors of any tier to fully comply with, all of said plans, procedures and services, including but not limited to, completion of all necessary applications for coverage, prompt and full compliance with all audit requests and claim reporting procedures, and full compliance with the safety, loss prevention and loss control programs implemented by, or at the request of the County.

1.1.3.14 INSURANCE NECESSARY FOR THE WORK, BUT COVERING OPERATIONS OUTSIDE THE OCIP

- (a) The Contractor shall, for the duration of this Agreement, provide and maintain insurance and shall require each Sub-Contractor to provide and maintain insurance of the type and in the limits as described in Paragraph 1.2, which is intended to cover employee injury, personal injury, bodily injury and property damage liability for ongoing operations work performed away from the Project site.
- (b) The insurance described in Subparagraphs 1.2.1.2.B (Motor Vehicle Liability) and 1.2.1.2.D (Professional Liability) shall apply to Work performed by both enrolled and non-enrolled entities both at and away from the Project site, and shall be provided and maintained for the duration of this Agreement. Such insurance shall name the parties required to secure same as insureds and shall be in a form and through issuing companies acceptable to the County. Such insurance shall contain a defense of suits provision.
- (c) The Contractor shall assure that all non-enrolled entities provide and maintain, for the duration of this Agreement, insurance of the type and in the limits as described in Paragraph 1.2, which shall cover those entities for employee injury, personal injury, bodily injury, and property damage liability for any Work performed at the Project site.

1.1.3.15 CONTRACTOR OCIP OBLIGATIONS

- (a) The Contractor and each of its Sub-Contractors shall:

- (i) Furnish to Fulton County's designated Representative all information and documentation that the County may require from time to time, in connection with the issuance of policies under this Agreement, in such form and substance as the OCIP Administrator may prescribe.
 - (ii) Furnish to the County's designated Representative monthly certified payroll and accident summary reports on forms provided by the OCIP Administrator, and payroll records, as required.
 - (iii) Segregate their respective reports relating to the Work for which OCIP coverage is herein provided, from their records relating to other work for which such coverage is not provided.
 - (iv) Promptly comply with the recommendations of the OCIP insurance carriers, as submitted through the County's designated Representative.
- (b) The Contractor shall not violate or knowingly permit to be violated any conditions of the policies of insurance provided by the County under the terms of this Agreement, and shall at all times satisfy the requirements of the issuing insurance companies.
- (c) The Contractor shall assure that all OCIP requirements imposed upon and to be performed by the Contractor shall likewise be imposed upon, assumed and performed by each of its Sub-Contractors and uninsured parties with whom it or its Sub-Contractors have a contractual relationship and are performing work under the Contract.
- (d) The Contractor shall furnish each bidding and negotiating Sub-Contractor, vendor, supplier, material dealer or other person or business entity that may provide goods or services in connection with the Work, a copy of this document describing the insurance requirements for the Contractor, and its Sub-Contractors shall require each to impose the same requirement in their subcontracting and procurement procedures.
- (e) If the Contractor or any of its Sub-Contractors should fail to comply with the requirements of this document, the County may withhold payments due to the Contractor or suspend the Work until such time as the Contractor and its Sub-Contractors have performed such obligations to the reasonable satisfaction of the County.
- (f) The Contractor agrees that the Contract Sum includes all costs of complying with the OCIP, as herein described.

1.1.3.16 NOTICES, COSTS AND LOSSES

- (a) All policies of insurance that either the Contractor, its Sub-Contractors, or the County is required to secure and maintain, shall be endorsed to provide that the insurance company shall notify the County, the Contractor, and each Named

Insured at least thirty (30) days prior to the effective date of any cancellation or modification of such policies.

- (a) The Contractor shall furnish to the County's designated Representative certificates of insurance for insurance required to be maintained by the Contractor and its Sub-Contractors, as provided herein. Prior to the issuance of the Notice to Proceed, the Contractor shall not be permitted on the Project site.
- (c) The County will pay the cost of the premiums for the insurance described above as being provided by the County, and the County will receive and pay, as the case may be, all adjustments in such costs, whether by way of dividends or otherwise. The Contractor shall execute such instruments of assignment as may be necessary to permit the County's receipt of such adjustments and shall cause all Sub-Contractors covered by such insurance to do the same.
- (d) The Contractor shall be responsible for the payment of the deductible amounts indicated in Subparagraphs 1.1.3.3 and 1.1.3.4. If the actual County-provided OCIP policies have deductible amounts greater than those indicated in Subparagraphs 1.1.3.3 and 1.1.3.4, such excess amounts will be paid by the Contractor.
- (e) The Contractor shall be responsible for all losses greater than OCIP policy limits.
- (f) Payments by the insurer for all losses covered under the All Risk Builder's Risk policy, as specified in Section 1.1.3.4, will be made to the County. The County will make proceeds from the Builder's Risk policy available to the Contractor for rebuilding work damaged by covered perils.

1.1.3.17 SUBROGATION AND WAIVER

- (a) The Contractor shall require all policies of insurance that are related to the Work and that are secured and maintained by the Contractor and its Sub-Contractors to include clauses providing that each underwriter and carrier shall waive all of their respective rights of recovery, under subrogation or otherwise, against the County, its officers, agents, employees and consultants rendering services at the Project site, the OCIP Administrator, the Contractor and its Sub-Contractors, regardless of tier, and all other Project contractors and their Sub-Contractors, regardless of tier.
- (b) The Contractor waives all rights of recovery against its Sub-Contractors, the County, its officers, agents, employees and consultants rendering services at the Project site, the OCIP Administrator, and other Project contractors and their Sub-Contractors, regardless of tier, that the Contractor may have or acquire because of deductible clauses in or inadequacy of limits of policies of insurance that are in any way related to the Work and that are secured and maintained by the Contractor.
- (c) The Contractor shall require its Sub-Contractors of every tier to waive the rights of recovery in the same manner (as waived in the preceding paragraph by the Contractor) against the County, its officers, agents, employees and consultants rendering services at the Project site, the OCIP Administrator, the Contractor, and other Project contractors and their Sub-Contractors, regardless of tier.

1.1.3.18 COVERAGE DETERMINED BY POLICY

The coverages referred to above are set forth in full in the respective policy forms, and the foregoing descriptions of such policies are not intended to be complete, or to alter or amend any provision of the actual policies, and in matters, if any, in which the said description may be conflicting with such instruments, the provisions of the policies of the insurance shall govern.

1.2 CONTRACTOR'S LIABILITY INSURANCE

1.2.1 Pursuant to the exclusions of the Owner-Controlled Insurance Program (OCIP) described in Paragraph 1.1 above, the Contractor shall purchase and maintain during the life of this Agreement, from a company or companies licensed to do business in its agents and acceptable to the County, such insurance as shall fully protect him, the County, any other Professional Consultant or Architect or Engineer hired by the County, and any parties, consultants, or Sub-Contractors performing work covered by this Agreement from any and all claims, including those resulting from bodily injury (including accidental death), professional liability of the property damage (other than to the work itself) or personal injury which may arise or result from the Contractor's operations under this Agreement **which are not covered under the OCIP**, whether such operations be by himself or by any Sub-Contractor, or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable.

(a) Said insurance shall specifically provide coverage during the life of this Agreement to the County, its agents, any Professional Consultant or Architect or Engineer hired by the County, and any Sub-Contractor performing work covered by this Agreement for claims made by any persons, including the employees and parties in privity of the contract with the Contractor, claiming injury as a result of the performance of the Project.

(b) At a minimum, such insurance must include but not necessarily be limited to:

- (i) Worker's Compensation and Employer's Liability insurance (**for all operations away from the Project site**);
- (ii) Motor Vehicle Liability insurance, covering all motor vehicles, whether owned, non-owned, or hired (**for all operations both at and away from the Project site**);
- (iii) Comprehensive (or Commercial) General Liability insurance, with Broad Form Liability endorsement. Comprehensive (or Commercial) General Liability policy with Broad Form Liability endorsement shall be further endorsed naming County, Program Manager, Construction Manager, and County's Professional Consultants as additional insured (**for all operations away from the Project site**).
- (iv) Professional Liability insurance, specifying that the Contractor shall be responsible to the County for acts, errors and omissions of the Contractor's directors, officers, employees and parties in privity of the contract with the Contractor to perform a portion of the work, including their agents and employees (**for all operations both at and away from the Project site**). The Contractor shall require the architects and the engineers that are responsible for the design and engineering to purchase and maintain

liability insurance with no less coverage than \$1,000,000.00 or 10% of the construction value of the Work, whichever is greater, throughout the duration of the project and for two years following the Date of Substantial Completion.

- 11.2.2 The insurance required by Subparagraph 1.2.1 above shall be written for not less than the following liability limits, or greater if required by law. Evidence of such insurance shall be provided PRIOR to the day of actual work being performed (refer to OCIP Enrollment procedures provided by the OCIP Administrator for more assistance, or contact Fulton County's designated Representative.)

(a) Worker's Compensation

| | |
|-------------------------|---------------------|
| Each Accident | GA Statutory Limits |
| Disease – Policy Limit | \$500,000 |
| Disease – Each Employee | \$100,000 |
| Employers Liability | \$1,000,000 |

General Liability

| | |
|-------------------------------|-------------|
| Bodily Injury/Property Damage | \$1,000,000 |
| Personal Injury | \$1,000,000 |
| General Aggregate | \$2,000,000 |

Automobile Liability

| | |
|---------------|-----------------|
| Bodily Injury | \$1,000,000 CLS |
|---------------|-----------------|

Excess/Umbrella

As specified and required in the Contract

Professional Liability (if required by the specific Contract and Project)

Limit of \$1,000,000 or 10% of Contract value, whichever is greater.

Note: The Contractor shall provide and shall require all Sub-Contractors performing work under this Agreement to obtain an insurance certificate showing proof of insurance coverage conforming to the above limits, and showing FULTON COUNTY GOVERNMENT as the "Certificate Holder" and "Additional Insured" without such certificate, the Contractor and any Sub-contractor are considered NON-ENROLLED in OCIP, and cannot commence work.

END OF SECTION # 00500

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION

SECTION # 00540

OCIP INSURANCE INFORMATION FORM

The attached form is required to be completed and submitted by Bidder and its subcontractors. Refer to the instruction sheet attached to the form for specific instructions.

OCIP INSURANCE INFORMATION FORM

OCIP Insurance Information Form Instructions (one page) follows

FULTON COUNTY OCIP INSURANCE COST IDENTIFICATION WORKSHEET

| | | | | |
|--|-------------|--------------|--------------|------------|
| Contractor | Indv | Ptshp | Corp | J/V |
| Address | | | FEIN | |
| Office Contact: | Phone | | Fax: | |
| Site Contact | Phone | | Fax: | |
| Safety Contact | Phone | | Fax: | |
| CONTRACT INFORMATION – Contract Value: \$ | | | JOB#: | |

Job Name Description _____

Awarding Contractor: _____ Prime Contractor: _____

Start Date: _____ Est. Completion Date _____ %Self Performed _____ Est. Manhours _____

% Subcontracted: _____ Est. # of Subcontractors _____

CURRENT INSURANCE INFORMATION; REQUIRED INSURANCE COVERAGES AND LIMITS ARE SHOWN IN THE BID AND CONTRACT DOCUMENTATIONS. INFORMATION DISCLOSED ON THIS FORM IS SUBJECT TO AUDIT AND ADJUSTMENT THROUGHOUT THE TERM OF THE CONSTRUCTION OF PROJECT

CONTRACTOR'S INSURANCE BROKER OR AGENT:

| | | |
|--------------|-----------|--|
| Company Name | Contract: | |
| City | Phone: | |

WORKER'S COMPENSATION

Current WC Ins. Co.: _____ Policy Period _____

Experience Modifier: _____ Rate Date: _____ Deductible _____ Retention: _____

A. Workers' Compensation (Project Site Payroll Only) Attach additional pages if required

| W.C. Classification | W.C. Code | W.C. Rate/ \$100 Payroll | Estimated Payroll* | Premium |
|--|-----------|--------------------------|---|-------------|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| Subtotal | | | | |
| <p><i>* Although credits should be identified, the only allowable credits are Experience Modifier and Premium Discount</i></p> <p>It is extremely important to accurately estimate payrolls anticipated for this contract. Payroll should be raw wages <u>without</u> burden, fringes, or overtime premium: but should include sick, vacation, holiday pay and imputed income. <u>Attach a copy of your declaration page and schedule rate sheets</u></p> | | | Increases Limit Factor: _____% | \$ |
| | | | Experience Modifier | \$ |
| | | | Discounts or Surcharges | \$ |
| | | | Deductible/Self Insured Retention Credit* | \$ |
| | | | OR | |
| | | | *Expected Losses within Deductible/Self Insured Retention | \$ |
| | | | Total Workers' Compensation Premium | A \$ |

NO CERTIFICATES OF INSURANCE OR POLICIES WILL BE PROVIDED UNDER THE OCIP UNTIL
THIS FORM IS RECEIVED.

FULTON COUNTY OCIP INSURANCE COST IDENTIFICATION WORKSHEET

GENERAL LIABILITY

Current GL Ins. Co.: _____ Policy Period _____

Current GL rate is based on _____ Payroll or _____ Receipts per _____ \$10 \$1,000 or Flat
0 _____ Premium _____Retention
Deductible _____ \$: _____

| B. General Liability (Project Site Payroll/Receipts Only) Attach additional pages if required | | | | |
|--|------------|-------------|--|------------|
| G.L. Classification | G. L. Code | G.L. Rate | Estimated Payroll/Receipts * | Premium |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| <i>It is extremely important to accurately estimate payrolls anticipated for this contract. Attach a copy of your declaration page and schedule rate sheet.</i> | | | Deductible/Self Insured Retention Credit | \$ |
| | | | OR | |
| | | | Expected Losses within Deductible/Self Insured Retention | \$ |
| Total General Liability Premium | | | | B\$ |
| C. Estimated Subcontractor Premiums FORM-1 MUST BE COMPLETED BY AWARDING CONTRACTOR FOR EACH SUBCONTRACTOR. | | | | C\$ |
| D. Umbrella Excess Name of Insurer: _____ | | Rate: _____ | Per \$ _____ Term: _____ | D\$ |
| E. Builder's Risk Name of Insurer: _____ | | Rate: _____ | Per \$ _____ Term: _____ | E\$ |
| F. TOTAL PREMIUMS (A+B+C+D+E) This amount must equal the insurance credit indicated on your bid proposal. | | | | F\$ |
| "Total Premiums" indicated in F represent the amount of insurance premiums the contractor has excluded from the bid amount since the Owner is furnishing the construction insurance. | | | | |

It is each Contractor's responsibility to notify its own insurance carrier to exclude all work to be done under this contract from your current insurance program.

AGREEMENT

Fulton County, Georgia, as sponsor of the OCIP, or their Agent, is granted permission by Contractor to inspect the insurance and payroll records used in determining the above credit. Fulton County will deduct the above amount from Contractor's bid to determine contract amount. At completion of the Work, Fulton County's Agent shall audit the project payroll records of Contractor and adjust Contract amount for final audited insurance premiums in accordance with the insurance premium audit provisions of the insurance policy. Any and all returns of premiums, dividends, discounts or other adjustments to any OCIP policy is assigned, transferred and set over absolutely to Fulton County. This assignment is valid for insurance policies whose premiums have been paid by Fulton County on behalf of such Contractor.

Signed _____ Title _____ Date _____

**NO CERTIFICATES OF INSURANCE OR POLICIES WILL BE PROVIDED UNDER THE OCIP
UNTIL THIS FORM IS RECEIVED.**

INSTRUCTIONS

Specific instructions for completing the "OCIP Insurance Information Form":

Section I: Workers' Compensation

- A. For project site operations only, report the classifications, codes, experience modifier and rates and payroll estimates used in your appropriate workers compensation policy. Provide the name of your regular workers' compensation carrier, along with your policy effective dates and Federal Employer ID#.
- B. If your regular W.C. program includes a deductible or retention level, include allocated losses you would expect within that deductible/retention on this Project.

Section II: General Liability

- A. Use the appropriate rates and payroll estimates applicable to on-site project operations as outlined in your appropriate policy.
- B. If your regular G.L. program includes a deductible or retention level, include allocated losses you would expect within that deductible/retention on this Project.

Section III: Excess/Umbrella Liability

- A. Use the appropriate rates applicable to on-site project operations as outlined in your appropriate policy.
- B. If you presently do not carry an Excess or Umbrella liability policy, contact your insurance representative or broker for an estimate.

Section IV: Completed Operations (1 Year)

Use the appropriate rates applicable to on-site project operations as outlined in your appropriate policy.

Section V: Subcontractor Premiums and Allocated Losses (excluding Motor Vehicle)

- A. If lower-tier contractors (subcontractors or sub-subcontractors) are included in your bid, you must provide them with a set of these forms and instructions. Attach the lower-tier contractors' forms to your submission. (Reference O.C.I.P. contract language for information regarding which entities are eligible for coverage under the O.C.I.P.)
- B. If lower-tier contractors have a deductible or retention level within their insurance program, they must also include allocated losses which they would expect within that deductible/retention on this Project.

Section VI: Overhead & Profit on Insurance Premiums

Enter the overhead and profit percentage your firm adds to the insurance premiums (5%, 10%, etc.).

END OF SECTION # 00540

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION**SECTION # 00600****SAMPLE CONTRACT AGREEMENT**

Contractor: _____ Project No. _____

Address: _____ Telephone: _____

Contact: _____ Facsimile: _____

THIS AGREEMENT is effective as of the _____ day of _____, 2006, by and between Fulton County, a political subdivision of the State of Georgia (hereinafter called the "County"), and the above named CONTRACTOR in accordance with all provisions of this Construction agreement, consisting of the following Contract Documents:

General Conditions

Special Conditions

Bid Form

Quantities and Pricing

Scope of Work and Technical Specifications

Drawings and Specifications

Exhibits

Insurance Forms

Purchasing Forms

Office of Contract Compliance Forms

WITNESSETH: That the said Contractor has agreed, and by these presents does agree with the said County, for an in consideration of a Contract Price of _____ (\$_____) and other good and valuable consideration, and under the penalty expressed on Bonds hereto attached, to furnish all equipment, tools, materials, skill, and labor of every description necessary to carry out and complete in good, firm, and substantial, and workmanlike manner, the Work specified, in strict conformity with the Drawings and the Specifications hereinafter set forth, which Drawings and Specifications together with the bid submittals made by the Contractor, General Conditions, Special Provisions, Detailed Specifications, Exhibits, and this Agreement, shall all form essential parts of this Contract. The Work covered by this Contract includes all Work indicated on Plans and Specifications and listed in the Bid entitled:

Project Number: **S228**Project Name: **FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION**

The Contractor shall commence the Work with adequate force and equipment within 10 days from receipt of Notice to Proceed from the County, and shall complete the work within 90 **calendar** days from the Notice to Proceed or the date work begins, whichever comes first. The Contractor shall remain responsible for performing, in accordance with the terms of the contract, all work assigned prior to the expiration of the said calendar days allowed for completion of the work even if the work is not completed until after the expiration of such days.

For each calendar day that any work remains uncompleted after the time allowed for completion of the work, the Contractor shall pay the County the sum of \$500.00 not as a penalty but as liquidated damages, which liquidated damages the County may deduct from any money due the contractor. At the County's convenience and not to it prejudice the County may provide written notice of the commencement of the assessment of liquidated damages].

As full compensation for the faithful performance of this Contract, the County shall pay the Contractor in accordance with the General Conditions and the prices stipulated in the Bid, hereto attached.

It is further mutually agreed between the parties hereto that if, at any time after the execution of this Agreement and the Surety Bonds hereto attached for its faithful performance, the County shall deem the surety or sureties upon such bonds to be unsatisfactory, or, if, for any reason, such bonds cease to be adequate to cover the performance of the Work, the Contractor shall, at his expense, within five days after receipt of notice from the County so to do, furnish an additional bond or bonds in such form and amount, and with such surety or sureties as shall be satisfactory to the County. In such event no further payment to the Contractor shall be deemed to be due under this Agreement until such new or additional security for the faithful performance of the Work shall be furnished in manner and form satisfactory to the County.

The Contractor hereby assumes the entire responsibility and liability for any and all injury to or death of any and all persons, including the Contractor's agents, servants, and employees, and in addition thereto, for any and all damages to property caused by or resulting from or arising out of any act or omission in connection with this contract or the prosecution of work hereunder, whether caused by the Contractor or the Contractor's agents, Servants, or employees, or by any of the Contractor's subcontractors or suppliers, and the Contractor shall indemnify and hold harmless the County, the Construction Manager, or any of their subcontractors from and against any and all loss and/or expense which they or any of them may suffer or pay as a result of claims or suits due to, because of, or arising out of any and all such injuries, deaths and/or damage, irrespective of County or Construction Manager negligence (except that no party shall be indemnified for their own sole negligence). The Contractor, if requested, shall assume and defend at the Contractor's own expense, any suit, action or other legal proceedings arising there from, and the Contractor hereby agrees to satisfy, pay, and cause to be discharged of record any judgment which may be rendered against the County and the Construction Manager arising there from.

In the event of any such loss, expense, damage, or injury, or if any claim or demand for damages as heretofore set forth is made against the County or the Construction Manager, the County may withhold from any payment due or thereafter to become due to the Contractor under the terms of this Contract, an amount sufficient in its judgment to protect and indemnify it and the Construction Manager from any and all claims, expense, loss, damages, or injury; and the County, in its discretion, may require the Contractor to furnish a surety bond satisfactory to the County providing for such protection and indemnity, which bond shall be furnished by the Contractor within five (5) days after written demand has been made therefore. The expense of said Bond shall be borne by the Contractor. **[See General Conditions for similar provisions]**

This Contract constitutes the full agreement between the parties, and the Contractor shall not sublet, assign, transfer, pledge, convey, sell or otherwise dispose of the whole or any part of this Contract or his right, title, or interest therein to any person, firm or corporation without the previous consent of the County in writing. Subject to applicable provisions of law, this Contract shall be in full force and effect as a Contract, from the date on which a fully executed and approved counterpart hereof is delivered to the Contractor and shall remain and continue in full force and effect until after the expiration of any guarantee period and the Contractor and his sureties are finally released by the County.

This agreement was approved by the Fulton County Board of Commissioner on **[Insert approval date and item number]**.

[SIGNATURES NEXT PAGE]

Attest: _____ NAME OF CONTRACTOR

By: _____

Title: _____

Seal (Affix)

Attest: FULTON COUNTY, GEORGIA

By: _____
Mark Massey, Clerk to the Commission

By: _____
Karen Handel, Chair
Board of Commissioners

APPROVED AS TO FORM:

APPROVED AS TO CONTENT:

By: _____
County Attorney

By: _____
Angela Parker, Director
Department of Public Works

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION # 00610
PERFORMANCE BOND REQUIREMENTS

No contract with Fulton County for work to be done shall be valid for any purpose unless the Contractor shall give a Performance Bond with good and sufficient surety payable to, in favor of and for the protection of Fulton County. The Performance Bond shall be in the amount of at least the total amount payable by the terms of the Contract and shall be written on the enclosed form.

Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business as a surety in Georgia.

Attestation for the corporation must be by the corporate officer; for a partnership by another partner; for an individual by a notary with the corporate seal.

(Remainder of the Page intentionally left blank.)

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS [insert name contractor] (hereinafter called the "Principal") and [insert name of surety] (hereinafter called the "Surety"), are held and firmly bound unto **FULTON COUNTY**, a political subdivision of the State of Georgia (hereinafter called the "County") and their successors and assigns, the penal sum of [100% of contract amount], lawful money of the United States of America, for the payment of which the principal and the Surety bind themselves, their administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered, or is about to enter, into a certain written contract (Contract) with the County, dated _____, which is incorporated herein by reference in its entirety, for the [name of project], more particularly described in the Contract (herein called the "Project"); and

NOW, THEREFORE, the conditions of this obligation are as follows, that if the Principal shall fully and completely perform all the undertakings, covenants, terms, conditions, warranties, and guarantees contained in the Contract, including all modifications, amendments, changes, deletions, additions, and alterations thereto that may hereafter be made, then this obligation shall be void; otherwise it shall remain in full force and effect.

Whenever the Principal shall be, and declared by the County to be, in default under the Construction-Type Contract, the Surety shall promptly remedy the default as follows:

1. Complete the Contract in accordance with its terms and conditions; or, at the sole option of the County,
2. Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by the Surety and the County of the lowest responsible bidder, arrange for a contract between such bidder and County and make available as the work progresses (even though there should be a default or succession of defaults under the Contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the penal sum set forth in the first paragraph hereof, as may be adjusted, and the Surety shall make available and pay to the County the funds required by this Paragraph prior to the payment of the County of the balance of the contract price, or any portion thereof. The term "balance of the contract price," as used in this paragraph, shall mean the total amount payable by the County to the Contractor under the Contract, and any amendments thereto, less the amount paid by the County to the Contractor; or, at the sole option of the County,
3. Allow County to complete the work and reimburse the County for all reasonable costs incurred in completing the work.

In addition to performing as required in the above paragraphs, the Surety shall indemnify and hold harmless the County from any and all losses, liability and damages, claims, judgments, liens, costs and fees of every description, including reasonable attorney's fees, litigation costs and expert witness fees, which the County may incur, sustain or suffer by reason of the failure or default on the part of the Principal in the performance of any or all of the terms, provisions, and requirements of the Contract, including any and all amendments and modifications thereto, or incurred by the County in making good any such failure of performance on the part of the Principal.

The Surety shall commence performance of its obligations and undertakings under this Bond promptly and without delay, after written notice from the County to the Surety.

The Surety hereby waives notice of any and all modifications, omissions, additions, changes, alterations, extensions of time, changes in payment terms, and any other amendments in or about the Contract, and agrees that the obligations undertaken by this Bond shall not be impaired in any manner by reason of any such modifications, omissions, additions, changes, alterations, extensions of time, change in payment terms, and amendments.

The Surety hereby agrees that this Bond shall be deemed amended automatically and immediately, without formal or separate amendments hereto, upon any amendment to the Contract, so as to bind the Principal and the Surety to the full and faithful performance of the Contract as so amended or modified, and so as to increase the penal sum to the adjusted Contract Price of the Contract.

No right of action shall accrue on this Bond to or for the use of any person, entity or corporation other than the County and any other obligee named herein, or their executors, administrators, successors or assigns.

This Bond is intended to comply with O.C.G.A. Section 36-91-1 et seq., and shall be interpreted so; as to comply with; the minimum requirements thereof. However, in the event the express language of this Bond extends protection to; the County beyond that contemplated by O.C.G.A. Section 36-91-1 et seq. and O.C.G.A. Section 13-10-1, as amended, or any other statutory law applicable to this Project, then the additional protection shall be enforced in favor of the County, whether or not such protection is found in the applicable statutes.

IN WITNESS WHEREOF the undersigned have caused this instrument to be executed and their respective corporate seals to be affixed and attested by their duly authorized representatives this _____ day of _____, _____.

_____(SEAL)
(Principal)

By:

Attest:
Secretary

_____(SEAL)
(Surety)

By:

Attest:
Secretary

(Address of Surety's Home Office)

(Resident Agent of Surety)

END OF SECTION # 00610

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION**SECTION # 00620****PAYMENT BOND REQUIREMENTS**

No Contract with Fulton County for work to be done shall be valid for any purpose unless the Contractor shall give a Payment Bond with good and sufficient surety payable to Fulton County for the use and protection of all sub-contractors and all persons supplying labor, materials, machinery, and equipment in the prosecution of the work provided for in the Contract. The Payment Bond shall be in the amount of at least the total amount payable by the terms of the Contract and shall be written on the following form.

Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Georgia.

Attestation for the corporation must be by the corporate officer; for a partnership by another partner; for an individual by a notary with the corporate seal.

(Remainder of the Page intentionally left blank.)

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS that [insert name of contractor] (hereinafter called the "Principal") and [insert name of surety] (hereinafter called the "Surety"), are held and firmly bound unto **FULTON COUNTY**, a political subdivision of the State of Georgia (hereinafter called the "County"), its successors and assigns as obligee, in the penal sum of [100% of contract amount], lawful money of the United States of America, for the payment of which the Principal and the Surety bind themselves, their administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered, or is about to enter, into a certain written contract with the County, dated [insert date of contract], which is incorporated herein by reference in its entirety (hereinafter called the "Contract"), for construction-type services of a project known as [insert name of project], as more particularly described in the Contract (hereinafter called the "Project");

NOW, THEREFORE, the condition of this obligation is such that if the Principal shall promptly make payment to all persons working on or supplying labor or materials under the Contract, and any amendments thereto, with regard to labor or materials furnished and used in the Project, and with regard to labor or materials furnished but not so used, then this obligation shall be void; but otherwise it shall remain in full force and effect.

1. A "Claimant " all be defined herein as any subcontractor, person, party, partnership, corporation or the entity furnishing labor, services or materials used, or reasonably required for use, in the performance of the Contract, without regard to whether such labor, services or materials were sold, leased or rented, and without regard to whether such Claimant is or is not in privity of contract with the Principal or any subcontractor performing work on the Project, including, but not limited to, the following labor, services, or materials: water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.
2. In the event a Claimant files a lien against the property of the County, and the Principal fails or refuses to satisfy or remove it promptly, the Surety shall satisfy or remove the lien promptly upon written notice from the County, either by bond or as otherwise provided in the Contract.
3. The Surety hereby waives notice of any and all modifications, omissions, additions, changes, alterations, extensions of time, changes in the payment terms, and any other amendments in or about the Contract and agrees that the obligations undertaken by this Bond shall not be impaired in any manner by reason of any such modifications, omissions, additions, changes, alterations, extensions of time, changes in payment terms, and amendments.
4. The Surety hereby agrees that this Bond shall be deemed amended automatically and immediately, without formal or separate amendments hereto, upon any amendment or modifications to the Contract, so as to bind the Principal and Surety, jointly and severally, to the full payment of any Claimant under the Contract, as amended or modified, provided only that the Surety shall not be liable for more than the penal sum of the Bond, as specified in the first paragraph hereof.
5. This Bond is made for the use and benefit of all persons, firms, and corporations who or which may furnish any materials or perform any labor for or on account of

the construction-type services to be performed or supplied under the Contract, and any amendments thereto, and they and each of them may sue hereon.

6. No action may be maintained on this Bond after one (1) year from the date the last services, labor, or materials were provided under the Contract by the Claimant prosecuting said action.
7. This Bond is intended to comply with O.C.G.A. Section 36-91-1 et seq., and shall be interpreted so as to comply with the minimum requirements thereof. However, in the event the express language of this Bond extends protection to the County beyond that contemplated by O.C.G.A. Section 36-91-1 et seq. and O.C.G.A. Section 13-10-1, as amended, or any other statutory law applicable to this Project, then the additional protection shall be enforced in favor of the County, whether or not such protection is found in the applicable statutes.

IN WITNESS WHEREOF, the Principal and Surety have hereunto affixed their corporate seals and caused this obligations to be signed by their duly authorized representatives this of _____, _____.

_____(SEAL)
(Principal)

By:

Attest:

Secretary

_____(SEAL)
(Surety)

By:

Attest:

Secretary

(Address of Surety's Home Office)

(Resident Agent of Surety)

END OF SECTION # 00620

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION

SECTION # 00700A

EXHIBIT A

EXHIBIT A

(Not Used)

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION

SECTION # 00700B

EXHIBIT B

CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

SAFETY POLICY STATEMENT

It is the policy of Fulton County to establish a comprehensive accident and loss prevention process for all Capital Projects implemented by Fulton County or its agents.

The goals of this comprehensive accident and loss prevention process are as follows:

- To prevent personal injury, property damage, and injury to the public.
- To implement safety and loss prevention processes as critical elements in the complete design and build process.
- To establish a proactive safety and health process that complies with all laws, regulations, consensus standards, and good management practices.
- To have the Contractors partner with Fulton County in the implementation of a Safety and Loss Prevention Process and Owner Controlled Insurance Program to minimize loss potential and to minimize risk.

Fulton County requires safety, health and loss prevention requirements and expectations to be included in project design, in the invitation to bid, in bid award and project meetings, and in the post job evaluations. The Contractor is required to develop and submit a project safety and health program for acceptance by Fulton County prior to Notice to Proceed. The Contractor is required to implement these requirements, and develop a management system to ensure compliance following the safety and health process outlined in this document and the bid documents.

The Contractor and other entities placed under contract with Fulton County will be obligated to implement, adhere to and enforce this Policy. The safety and health of the Contractor's employees, Sub-Contractors, and the public are the sole responsibility of the Contractor. The County may use and direct designated Representatives to implement and enforce this policy. **Failure of the Contractor to comply with this policy or any Safety related obligations may be grounds for contract termination.**

Safety Professionals, Fulton County's designated Representative and Insurance Carrier will periodically inspect all Fulton County construction projects to identify safety hazards and make recommendations to resolve the issues. Contractor will be responsible for abating the identified issues in a timely manner, and submitting written description of corrective action within 48 hours to Fulton County designated Representatives. Failure to bring timely resolution to the issues may result in work stoppage at Contractor's expense.

Prior to commencing work under this contract, Contractor's Project Manager and Project Superintendent shall attend a Pre-Construction Meeting and Safety Pre-Planning meeting to address insurance and safety issues/requirements.

CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

1.0. NOT USED

2.0 REFERENCES

- 1.1 Occupational Safety and Health Regulations (OSHA) 29CFR1910 and 29CFR1926
- 1.2 Environmental Protection Agency Regulations (EPA) 40CFR
- 1.3 Fulton County Safety and Health and Requirements
- 1.4 Georgia Department of Transportation Regulations and Requirements
- 1.5 US Department of Transportation Requirements
- 1.6 Manual of Uniform Traffic Control Devices for Streets and Highways (ANSI D6.1)
- 1.7 Georgia Department of Natural Resources Environmental Protection Division Regulations

Safety rules and regulations will be followed using federal, state or local regulations in force. Should a Contractor's rule be in use which is more effective, the most stringent rule or regulation will be enforced by the Contractor, Sub-Contractor's and Fulton County designated Safety Representative(s).

3.0 RESPONSIBILITY

The Contractor receiving the bid has the ultimate responsibility for the safety and health of all Sub-Contractors, all employees on the project, and the general public and complying with all governmental regulations and requirements (OSHA, EPA, DOT, state, local).

Nothing contained herein shall relieve the Contractor or any Sub-Contractor of such responsibility or liability.

4.0 PROCEDURE

- 4.1 The Contractor and each Sub-Contractor must implement a written safety and health prevention process and program following the guidelines contained in this document and in any other relevant portion of the Contract Documents. This program must be accepted by Fulton County or its Representatives prior to Notice to Proceed.
- 4.2 The Contractor and each Sub-Contractor must implement a drug and alcohol policy following the guidelines contained in this document and in the bid specific actions. This program must be accepted by Fulton County or its Representatives prior to Notice to Proceed.
- 4.3 The Contractor must designate a person responsible for site safety. Each Sub-Contractor must designate a person responsible for site safety.
- 4.4 Not Used.
- 4.5 Contractor is responsible for providing all necessary safety supplies and personal protective equipment required to protect its employees, Sub-Contractors, and the general public.
- 4.6 Contractor shall make available certified First-aid services, First-aid supplies, and provisions for medical care for all employees at the construction site prior to beginning work on site.

EXHIBIT B – CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

- 4.7 Contractor shall maintain a competent person at the construction site at all times with an OSHA 10-hour certification. Said person shall have the knowledge to recognize hazards or potential hazards and has the authority to correct such hazards.
- 4.8 The status of project safety shall be included in the Contractor's agenda, which is required in Progress Meetings.

5.0 DRUG AND ALCOHOL POLICY

The Contractor and each Sub-Contractor must implement a drug and alcohol policy in order to maintain a safe and efficient work environment. This policy must include the following elements.

Written policy that prohibits the use, transportation, sale and possession of these materials.

Disciplinary action plan for violations

Any treatment or reinstatement/reemployment options

Drug and alcohol testing schedule that includes pre-employment, periodic for safety sensitive or critical jobs, and for cause

Note: AGC, ABC and/or Fulton County programs may be used as guidance documents.

6.0 OTHER CONTROLLED ITEMS

The Contractor and each Sub-Contractor is required to include in the Project Safety Program a prohibition against the use, possession, concealment, transportation, promotion or sale of the following controlled items

Firearms, weapons, and ammunition.

Switchblades

Unauthorized explosives including fireworks

Stolen property or contraband

Controlled chemicals or chemicals recognized as being able to be used for improper purposes.

7.0 EMERGENCY PROCEDURES/GUIDELINES

- 7.1 The Contractor is required to establish site specific emergency procedures in the Project Safety Program to manage emergencies that may occur at any time in the following categories:
 - 1. Fire
 - 2. Employee injury
 - 3. Pedestrian injury due to work activity of any kind
 - 4. Property damage and damage to various utilities (i.e., electrical, gas, sewerage, water, telephone or public roadways)
 - 5. Public demonstrations
 - 6. Bomb threats
 - 7. Flood, Wind, Lightening, Hail
 - 8. Terrorists Threats

EXHIBIT B – CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

9. Work place violence

7.2 These Emergency Procedures will be made part of the Contractor's Project Safety Program submittal and shall include but not be limited to the following elements:

1. A list of emergency phone numbers posted at the job site, along with information to be transmitted in such emergencies.
2. An incident command structure defining duties and responsibilities
3. A system to train supervisors and employees on this emergency plan
4. Procedures on how to handle emergencies including access to the site by emergency responders, accounting for workers, and securing the area.
5. Procedures for media releases. These releases must be coordinated through the Fulton County Information and Public Affairs Office in coordination with the County's designated Representative.
6. A plan that addresses serious incidents that includes notification to Fulton County, Fulton County's designated Representative, the OCIP Administrator, and the Insurance Carrier immediately after the incident.
7. A review and updating frequency that includes forwarding a copy to Fulton County and the County's designated Representative.

8.0 ACCIDENT AND INCIDENT INVESTIGATION AND REPORTING

- 8.1 The Contractor is responsible for reporting all accidents and incidents on the project site to the County's designated Representative within (1) business day. Accidents or incidents resulting in a fatality, property loss in excess of \$5,000, or involvement with the general public must be reported immediately to Fulton County's designated Representative and the investigation of the accident or incident coordinated with Fulton County Safety staff and Insurance Carrier.
- 8.2 The Contractor will maintain a log of all injuries that occur on the job site. This log will be current and available for review.
- 8.3 For any incidents such as fires, explosions, fatalities, etc., the Contractor must notify Fulton County's designated Representative immediately and must coordinate any releases to the news media through the County's designated Representative and the County's Information and Public Affairs Office.
- 8.4 If a work-related injury should occur on this project, Contractor shall perform a thorough investigation of the incident and document the information on a worker's compensation 1st Report of Injury. This report shall be submitted to the Insurance Carrier within 24 hours of the incident.
- 8.5 A written accident investigation report containing the following information as a minimum must be forwarded to the Fulton County's designated Representative and OCIP Administrator within 24 hours of incident.
 1. Company Name
 2. Location
 3. Date and Time of incident

EXHIBIT B – CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

4. Description of incident
5. Names of all parties involved and all witnesses
6. Corrective action(s) taken to prevent recurrence
7. If the incident involves injury or illness, the following information must be provided:
 - a) A medical description of the injury or illness
 - b) OSHA recordability status i.e. first aid, medical treatment, lost time, days of restricted work.
 - c) If the public is involved, information about treatment and treatment location.
8. Any pictures, site drawings, etc. if they assist in describing the incident.

If the investigation cannot be completed in 24 hours, a preliminary report marked as such shall be forwarded and the report completed and forwarded as soon as possible.

9.0 JOB SAFETY ANALYSIS

- 9.1 The Contractor and each Sub-Contractor must implement a procedure to conduct a written job safety analysis or job hazard analysis for all project work tasks prior to beginning each task. Reference Appendix A.
- 9.2 The job safety analysis should follow National Safety Council, AGC, or other recognized guidelines and address all safety and health hazards for the work, identify personal protective and other safety equipment required, identify potential hazards to the general public if applicable, and identify any safety equipment, training, or controls that must be implemented prior to starting the work.
- 9.3 The Contractor must maintain a file for all job safety analysis forms, which is accessible for review.

10.0 SAFETY AND HEALTH COMPLIANCE AUDITING

10.1 Self Auditing Requirements

- 10.1.1 The Contractor and each Sub-Contractor must implement a procedure to assure that written safety and health audits or inspections are conducted at least biweekly (every 2 weeks). Safety checklists used by Fulton County's designated Representative may be used. The Contractor may use this checklist or an equivalent approved by Fulton County's designated Representative.
- 10.1.2 Each written safety audit must be filed on the site and a copy forwarded to Fulton County designated Representative. This audit will be routed to Fulton County's Insurance Carrier for review and comment and then filed in the Construction Project files.

10.2 NOT USED

10.3 INSPECTIONS BY REGULATORY AGENCIES

- 10.3.1 The Contractor must notify the Fulton County designated Representative whenever an OSHA compliance officer, health inspector, or EPA or

EXHIBIT B – CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

Georgia Environmental Protection Division Representative arrives at the project site to conduct an inspection.

10.3.2 The Contractor is required to forward a copy of all regulatory citations, notice of violations, or similar for this project to Fulton County's designated Representative. Copies must be forwarded to the Insurance Carrier.

10.3.3 These records will be reviewed with Fulton County designated Representative and included in the Construction Project files.

10.4 SAFETY INSPECTION AND AUDIT FOLLOW UP

10.4.1 Every safety audit or regulatory inspection conducted per the requirements above may be reviewed by the Fulton County designated Representative and/or Insurance Carrier loss control staff. This review may identify serious and repeat safety items, look at trends, identify risks and potential losses, and site safety and loss prevention activities.

10.4.2 After this review the findings may identify areas needing improvement.

10.4.3 A copy of the audit and any areas identified, as needing improvement will be forwarded to the Contractor's senior management.

10.4.4 For findings that indicate major loss potential or serious concerns about site safety, the areas identified as needing improvement and the overall performance may be reviewed in a meeting with the OCIP Administrator, Fulton County's designated Representative, and the Insurance Carrier loss control staff. A written action plan to address the Contractor's performance issues may be developed.

10.4.5 Fulton County or designated Representative may meet the Contractor's senior management to discuss the findings, contract requirements, and their plans to address the findings.

10.4.6 The number and frequency of safety audits and site visits may be increased until improvements are noted.

11.0 SAFETY MEETINGS

11.1 The Contractor will conduct weekly safety meetings with all Contractor and Sub-Contractor employees on the site.

11.2 The Contractor will keep safety-meeting records that include meeting topic(s), outline of items discussed, and attendance and sign in sheet. At this meeting any accidents or audit findings and corrective actions from the previous week will be discussed.

11.3 The Contractor will maintain a job site file that contains copies of the safety meeting records.

12.0 TRAINING, INSPECTION AND CERTIFICATION

12.1 Employee Training

EXHIBIT B – CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

- 12.1.1 The Contractor must be able to show when requested the required safety training for all Contractor and Sub-Contractor employees and competent persons working on the site including any required craft training.
- 12.1.2 The Contractor must be able to show when requested that all employees operating mobile equipment or cranes have met or exceeded training and licensing requirements.
- 12.1.3 The Contractor must be able to show when requested that all scaffolds are erected under the direction of a competent scaffold builder, that all users are properly trained, and that the scaffold is inspected daily.
- 12.1.4 The Contractor shall ensure that each employee is properly trained in the recognition and avoidance of unsafe conditions and the regulations applicable to his or her work environment to control or eliminate any hazards or other exposure to illness or injury.
- 12.1.5 If Contractor or Sub-Contractor employs anyone who cannot effectively communicate using the English language, a translator must be maintained on site who can relay instructions, questions, or concerns in a manner that the non-English and English-speaking employees will understand. The identification of this translator shall be provided to Fulton County's designated Representative.
- 12.1.6 Contractor shall orient all supervision and employees concerning safety requirements before working on the project site.
- 12.2 Equipment Certification and Inspection
 - 12.2.1 The Contractor must be able to document that all cranes and mobile equipment used on the job site have current inspections and certifications.
 - 12.2.2 The Contractor must assure that required daily and weekly equipment inspections are performed and documented in writing per governmental regulations and the requirements of this policy.
 - 12.2.3 The Contractor must maintain a job site file for these required inspections and certifications.
 - 12.2.4 Equipment identified as having safety problems or not meeting standards or codes shall be tagged as defective and shall not be used until those identified items have been corrected.
 - 12.2.5 Contractor shall maintain, and have available for viewing, safety inspection reports for ladder, electrical cords, scaffolds, and trenches/excavations.
- 13.0 SAFETY AND HEALTH PROGRAM ELEMENTS

Note: Based on the project work activities and scope of work, some program elements may be not applicable to the project work and therefore do not have to be implemented. Elements marked with an asterisk are applicable to all Projects.

 - 13.1 Return to Work Policy*

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The Contractor and each Sub-Contractor will be required to establish a transitional work program for employees injured at work, which provides modified duty within the employee's physical limitations.

13.2 Fire Prevention Program*

The Contractor and each Sub-Contractor will be required to submit a temporary fire protection plan to be in effect for the duration of the contract. This plan must be submitted as part of the Contractor's Safety Program submittal. It must include provisions for fire protection systems and equipment, as identified in OSHA Safety and Health for Construction 1926, Sub-Part F, Fire Protection and Prevention.

13.1 Hazard Communication (HAZCOM)*

The Contractor and each Sub-Contractor shall have a written HAZCOM Program. The program shall meet OSHA 1926 Requirements and provide for training so that all employees will be able to:

- Understand the program and identify hazardous chemicals with which they work.
- Understand product-warning labels.
- Have MSDSs for all potentially hazardous materials brought onto, used on, or stored at the job site.
- Know the physical location of the Material Safety Data Sheets (MSDS).

13.2 Personal Protective Equipment(PPE)*

All Contractor and Sub-Contractor employees and other site visitors will be required to wear the PPE necessary to accomplish the work in a safe manner. PPE required will vary from job to job and must be based on a written hazard assessment. A list of PPE that is required is identified below:

- Hard Hats shall be worn at all times on all projects
- Hearing Protection for operations that create noise in excess of 85 dBA is required.
- Contractor shall provide eye or face protection equipment when machines or operations present potential eye or face injury from physical, chemical, or radiation agents.
- Work boots or work shoes made of leather shall be required. No open toed shoes or canvas shoes are allowed
- Shirts with sleeves at least 4 inches long are required. Tank tops and mesh shirt are not allowed.
- Full Body Safety Harnesses with shock absorbing lanyards for fall protection are required.
- Full body and chemical splash protection is required when handling hazardous chemicals.

EXHIBIT B – CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

- Respirators are required when employees maybe exposed to dust and/or chemicals in excess of the OSHA permissible exposure limits.
- Long pants are required.

13.3 Confined Space Entry

If the project work involves permit required confined spaces, a permit required confined space entry program that meets OSHA requirements must be established. This program must include but is not limited to the following elements.

- Confined Space Identification
- Environmental Testing
- Rescue
- Communication with employees in the confined space
- Employee Training
- Permit System for entry

13.4 Excavations

If the Contractor or Sub-Contractor must make a cut, cavity, trench or depression in an earth surface formed by earth removal, the work must comply with the OSHA Regulations on trenching and excavations. A competent person must be assigned for each excavation. Requirements include but are not limited to

- Employee Training
- Daily inspections
- Soil testing
- Protective or support systems.

13.7 Electrical Tools, Equipment, and Systems*

- The Contractor and each Sub-Contractor must implement Assured Grounding Program or use Ground Fault Circuit Interrupter (GFCI) devices on all electrical tools and extension cords.
- All electrical work must be performed in accordance with the National Electrical Code (NEC) and OSHA.
- All electrical tools and extension cords must be in good repair and the Contractor must establish a written inspection program for all electrical tools. The frequency of inspection shall be at least monthly.

13.8 Lockout/Tagout Procedure

The Contractor and each Sub-Contractor will be required to implement a written Lockout/Tag procedure that meets OSHA requirements if their work requires energy isolation. Program elements include but are not limited to the following:

EXHIBIT B – CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

- Energy isolation lists for each piece of equipment
- Employee training
- Individually keyed locks and danger tags
- Written Procedure that assigns responsibilities

13.9 Fall Protection*

Contractor shall provide an approved fall protection system for all employees working at an elevation of 6 feet or higher on this project, including scaffolding work and steel erection. Employees will be responsible for utilizing the fall protection 100% of the time. Sub-Contractor will be responsible for ascertaining their employees' compliance with this requirement. The plan must address the following items:

- Only full body harnesses with shock absorbing lanyards and double locking hooks shall be use.
- Falls should be limited to less than 6 feet such than employee can neither fall more than 6 feet nor contact any lower level.
- Fall protection systems must be planned into the job and must be designed to handle loads and forces expected. The project goal is 100% fall protection.
- Employee training and enforcement of these requirements are mandatory to assure an effective program.

13.10 Scaffolding*

All scaffolds and work platforms shall be constructed to meet the requirements of OSHA 1926.451 and ANSI A10.8. Some program elements include but are not limited to

- User training for all employees who may use scaffolds
- Scaffolding is to be designed and erected by competent person(s) following manufacturer's guidelines. Employees must use fall protection when erecting scaffolding.
- Daily inspection by competent person. Must implement daily tag system to document inspection.
- Must have engineering approval for scaffolds above 100 feet in height.
- Must be able to document competent person credentials.
- Scaffolds must have proper egress (ladder/stairs) and should have guardrails, complete deck, toe boards and netting if anything can fall on people below. If guardrails or decking is not complete, fall protection must be used.

13.11 Cranes And Other Lifting Devices

- Trained and experienced operators shall operate Cranes in accordance with the applicable OSHA and ANSI/ASME.
- The Contractor is responsible for ensuring that the crane is properly sized for

EXHIBIT B – CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

the job and that all required inspections and maintenance required by OSHA and ANSI/ASME standards have been conducted.

- All cranes should have anti-two block devices installed and operational. Cranes lifting employees in personnel baskets must have an anti-two block device to stops the crane if this condition occurs (positive acting).
- Tag lines are required to secure materials while being moved or handled by cranes.
- All cranes working in the vicinity of overhead power lines shall be grounded and be equipped with proximity guards.
- A lift plan must be submitted for all lifts that exceed 20,000 pounds or 75% of the crane's lift capacity. This plan must be reviewed and approved by the Contractor.
- Slings, hooks, and other lifting devices must be inspected on regular basis and stored properly.

13.12 Use Of Personnel Baskets

- Personnel baskets should only be used as the last practical means after documenting that all other means are unacceptable.
- The personnel basket must be manufactured, tested, and used in accordance with OSHA 1926.550. The crane lifting the basket must also meet OSHA requirements.

13.13 Personal Lifts With Articulating Booms (Jlg) And Scissors Lifts

- Operators must be trained in the safe operation of the lift including daily inspection procedures prior to use.
- Operators of JLG lifts must wear a full body harness with shock absorbing lanyard and be tied off while the lift is operation. Operators in a scissors lift must use fall protection anytime the guardrail system removed or altered.

13.14 Ladders*

- Ladders are acceptable means of access when used in compliance with OSHA 1926.1053.
- Ladders must be in good repair, have safety feet and be inspected.
- Extension ladders must be either held by an employee on the ground or tied off at the top.
- Homemade ladders not meeting OSHA requirements should not be used.
- Non-conducting ladders are required for electrical work.
- Fall protection is encouraged for employees working on ladders especially if they will be leaning and turning in their work activities.

13.15 Tools And Equipment*

All tools and equipment used on the project must be in a safe operating condition, with all guards in place, and must meet or exceed all governmental

EXHIBIT B – CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

regulations (OSHA, EPA, DOT, etc.). Tools and equipment must be maintained, inspected, tested, and used in accordance with OSHA regulations.

13.16 Compressed Gas Cylinders*

- Compressed gas cylinders must be used, stored, and transported in accordance with OSHA requirements, DOT requirements, and Compressed Gas Association standards.
- Fuel and oxygen cylinders must be store separately or separated by a ½ hour rated firewall.
- Compressed gas cylinders are not allowed inside confined spaces.

13.17 Welding, Burning, And Cutting*

- The Contractor's program must meet or exceed OSHA and NFPA requirements.
- All flammables must be removed from work area and a fire watch posted in area until 30 minutes after the job is completed.
- At a minimum a 10 LB ABC rated fire extinguisher must be available in the immediate work area.
- Regulators must be in good working order and must have anti-flash back and check valves.
- Welding shields and burning goggles must be used.

13.18 Sanitation And Housekeeping*

- The project site shall have an adequate number of portable toilets and hand washing facilities.
- The project site must establish a housekeeping plan that includes daily site clean up and trash and debris removal.

13.19 Hearing Conservation*

The Contractor and each Sub-Contractor who has employees exposed to noise levels exceeding 85 dBA must establish a hearing conservation program that meets or exceeds OSHA requirements. Minimum program elements include audiometric testing, noise monitoring, use of hearing protectors, and employee training.

13.20 Respiratory Protection

The Contractor and each Sub-Contractor who has employees who wear respiratory protection must implement a respiratory protection program that meets or exceeds OSHA requirements. Minimum program elements include risk based respirator selection, medical surveillance, employee training, respirator fit testing, and written operating procedures.

14.0 SPECIALIZED SAFETY PROGRAM ELEMENTS

If required by the project scope of work and specific work site or activities, specialized programs listed below shall be included in the Contractor's Safety Program submittal.

EXHIBIT B – CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

The Contractor is required to implement the required programs and assure that they meet or exceed all contractual, regulatory and Fulton County's requirements applicable. Details for specific program elements may be included in the contract documents.

14.1 Asbestos Removal

14.2 Lead Based Paint Removal

14.3 Exposure Assessment and Employee Monitoring (Industrial Hygiene)

14.4 Hazardous Waste Operations and Training

14.5 Overhead Power Lines

14.6 Locating underground utilities

14.7 Dust Control

14.8 Guarding for floor holes and roof openings

14.9 Heavy Equipment, Truck and Earth Moving Equipment requirements

14.10 Environmental Requirements

15.0 ROAD AND TRANSPORTATION SAFETY REQUIREMENTS

The Contractor shall implement the following into its safety program whether required by the contract or any other authority having jurisdiction if required to perform the work and maintain vehicular and pedestrian traffic safety:

15.1 Barricades and Cones

15.2 Traffic and Warning Signs

15.3 Traffic control devices

15.4 Equipment and materials storage

15.5 Reflective Clothing and other personal protective equipment

15.6 Excavation and road hole protection

15.7 Erosion protection

15.8 Trained flaggers

16.0 ADDITIONAL REQUIREMENTS TO PROTECT THE GENERAL PUBLIC

Based on the Contractor's scope of work and specific work activities or location the Contractor may be required to implement the following into its safety program to protect the general public:

16.1 Fencing and other measures for site security

16.2 Warning, direction and no trespassing signs

16.3 Alternate public walk ways

16.4 Protection of the public from over head and other construction hazards

16.5 Site Traffic Control

16.6 Barricading off hazardous areas and open pits and holes

Appendix A Job Safety Analysis Worksheet Example and Information

JOB SAFETY ANALYSIS/JOB PRE-PLANNING WORKSHEET

| | | | |
|------------------------|---------------|-------------------------|--|
| Job Name and #: | | Completed By: | |
| Date: | | Phase/Operation: | |
| Task | Hazard | Control | |
| | | | |
| | | | |
| | | | |
| | | | |

PRE-OPERATIONAL PLANNING

FACT FINDING GUIDE - GL

Evaluate present conditions at job site to determine items that could lead to liability claims during work and after completion of the project.

A. PRESENT OCCUPANCY OR USE OF THE SITE

- Demolition to be done?
- Structures will remain (condition)?

B. HISTORY OF THE SITE

- For what was the site used before?
- Underground tanks?
- Underground utilities?

C. GEOLOGY OF THE SITE

- Rock to be blasted?
- Water to be removed/diverted?
- Fill needed? (where and how obtained?)
- Excavation needed? (where and how disposed of?)

Evaluate controls needed in reference to site security and public protection.

A. FENCING NEEDED?

B. ACCESS/GATES

- Can traffic be routed past office or checkpoint?
- "Non-Vendor" visitors escorted?
- Gate lockable after hours?
- "Hard Hat" signs at entrance?
- Dirt removal/tarping area at exit?
- Ready Mix chute wash area?

C. PEDESTRIANS

- Sidewalk maintained outside fence?
- Covered sidewalk needed?
- Special access requirements for neighboring occupants?
- Special after-hours considerations?

D. ENVIRONMENTAL

- Dust control?
- Silt control?
- Mud control on streets?
- Vibration control?

E. UTILITIES

- Underground utilities located?
- Overhead power lines in work area relocated, removed, or deenergized?

EXHIBIT B – CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

- Temporary power service away from high traffic areas?

F. **SUB-CONTRACTORS**

- Method to secure proof of adequate insurance coverage in place?
- List of hazardous materials obtained?
- List of hazardous materials provided?
- Responsibilities established
- Job site safety meetings
- Materials delivery
- Debris removal
- Access to site
- Weekly Sub-Contractors' meetings
- Schedule of safety inspections
- Emergency Procedures

G. **MATERIALS HANDLING**

- Crane selection criteria established
 - Maximum weight to be handled
 - Maximum lifting height
 - Maximum horizontal reach needed
 - Amount of travel needed
 - Swing radius available
 - Set-up area available
 - Ground bearing capacity
 - Approximate frequency of lifts
- Crane operations responsibilities established
 - Triangle or leasing company crane to be used?
 - Operator trained and experienced on specific machine?
 - Operator can accurately read and interpret machine load chart?
 - Critical lift identified (75% of net capacity)?
 - Machine fully inspected by a qualified outside agency?
 - Rigging hardware properly selected?
 - Inspecting and maintaining the crane per owner/manufacture specifications?

Start Up.

A. **ELECTRICAL**

- Temporary Power
 - Underground service possible?
 - Maintenance responsibilities established?
 - Main circuit panel barricaded?
 - Lighting planned?
- Circuit Protection
 - Ground fault circuit interrupt protection?
 - Assured grounding conductor program?

EXHIBIT B – CONTRACTOR SAFETY AND HEALTH MANAGEMENT PROCESS

- Responsibilities established?

B. FIRE PROTECTION

- ABC extinguishers adequately distributed?
- Properly sized?
- Maintenance of fire extinguishers?
- Stand pipe/hydrant available? Adequate?
- Housekeeping checks/inspections?

C. FALL PROTECTION

- Critical Job Phases Identified?
- Critical exposures identified by phase? (e.g. "Worker falls into basement excavation")
- Scheduled start dates for critical phases?
- General Fall Protection Procedures
- Perimeters
- Floor openings
- Working deck
- Work area access
- Ladders
- Elevator hatchways

D. PERSONAL PROTECTIVE EQUIPMENT

- General
- Hard hats
- Work shoes
- Specific by Task

E. HAZARD COMMUNICATION PROGRAM ESTABLISHED AND EMPLOYEES TRAINED

F. CONFINED SPACE ENTRY

- Procedures established and task(s) identified requiring use of procedures?

G. TRENCHING

- Procedures established and task(s) requiring procedures identified?

H. PHASE PRE-PLANNING

- Job schedules established?
- Agreed upon target dates for meeting?
- Follow up system

END OF SECTION # 00700B

SECTION # 00700C
EXHIBIT C
FINAL AFFIDAVIT

FINAL AFFIDAVIT

TO FULTON COUNTY, GEORGIA

I, _____, hereby certify that all suppliers of materials, equipment and service, subcontractors, mechanic, and laborers employed by _____ or any of his subcontractors in connection with the design and/or construction of _____ at Fulton County have been paid and satisfied in full as of _____, 200____, and that there are no outstanding obligations or claims of any kind for the payment of which Fulton County on the above-named project might be liable, or subject to, in any lawful proceeding at law or in equity.

Signature_____
Title

Personally appeared before me this _____ day of _____, 200____.
_____, who under Oath deposes and says that he
is _____ of the firm of _____, that he has read
the above statement and that to the best of his knowledge and belief same is an exact true
statement.

Notary Public_____
My Commission expires**END OF SECTION # 00700C**

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION**SECTION # 00700****GENERAL CONDITIONS**

FOR FULTON COUNTY

PUBLIC UTILITIES SEWER/WATER CONSTRUCTION CONTRACTS

00700-1 FAMILIARITY WITH SITE

Execution of this agreement by the Contractor is a representation that the Contractor has visited the site, has become familiar with the local conditions under which the work is to be performed, and has correlated personal observations with the requirements of this agreement.

00700-2 CONTRACT DOCUMENTS

This agreement consists of Owner's invitation for bid, instructions to bidders, bid form, performance bond, payment bond, acknowledgments, the contract, general conditions, special conditions, specifications, plans, drawings, exhibits, addenda, and written change orders.

- A. Notice of Award of Contract:
- B. Execution of Contract Documents

Upon notification of Award of Contract, the Owner shall furnish the Contractor the conformed copies of Contract Documents for execution by the Contractor and the Contractor's surety.

Within ten (10) days after receipt the Contractor shall return all the documents properly executed by the Contractor and the Contractor's surety. Attached to each document shall be an original power-of-attorney for the person executing the bonds for the surety and certificates of insurance for the required insurance coverage.

After receipt of the documents executed by the Contractor and his surety with the power-of-attorney and certificates of insurance, the Owner shall complete the execution of the documents. Distribution of the completed documents will be made upon completion.

Should the Contractor and/or Surety fail to execute the documents within the time specified, the Owner shall have the right to proceed on the Bid Bond accompanying the bid.

If the Owner fails to execute the documents within the time limit specified, the Contractor shall have the right to withdraw the Contractor's bid without penalty.

Drawings and Specifications:

The Drawings, Specifications, Contract Documents, and all supplemental documents, are considered essential parts of the Contract, and requirements occurring in one are as binding as though occurring in all. They are intended to define, describe and provide for all Work necessary to complete the Project in an acceptable manner, ready for use, occupancy, or operation by the Owner.

In case of conflict between the Drawings and Specifications, the Specifications shall govern. Figure dimensions on Drawings shall govern over scale dimensions, and detailed Drawings shall govern over general Drawings.

In cases where products or quantities are omitted from the Specifications, the description and quantities shown on the Drawings shall govern.

Any ambiguities or need for clarification of the Drawings or Specifications shall be immediately reported to the Construction Manager in writing. Any such ambiguity or need for clarification shall be handled by the Construction Manager in writing. No clarification of the Drawings and Specifications hereunder by the Construction Manager shall entitle the Contractor to any additional monies unless a Change Order has been processed as provided by "Changes in the Contract" hereof.

Any work done by the Contractor following a discovery of such differing site condition or ambiguity or need for clarification in the Contract Drawings and Specifications prior to a written report to the Construction Manager shall not entitle the Contractor to additional monies and shall be done at the Contractor's risk.

The Construction Manager will furnish the Contractor five (5) copies of the Contract Drawings and the Specifications, one copy of which the Contractor shall have available at all times on the Project site.

00700-3 DEFINITIONS

The following terms as used in this agreement are defined as follows to the extent the definitions herein differ or conflict with those in the Instructions for Bidders, Section 00100, the definitions herein shall control.

Change Order - A written order to the Contractor issued by the County pursuant to Fulton County Policy and Procedures 800-6 for changes in the work within the general scope of the contract documents, adjustment of the contract price, extension of the contract time, or reservation of determination of a time extension.

Construction Manager - The Construction Manager is the person or entity identified as such in writing by the County. The term "Construction Manager" means the Construction Manager or the Construction Manager's authorized representative. The Construction Manager is the County's agent for purposes of administering this contract.

Contract Price - The sum specified in the Agreement to be paid to the Contractor in consideration of the Work.

County - Fulton County, Georgia, a political subdivision of the State of Georgia, acting by and through the Chairman of its Board of Commissioners; Owner.

Day - A calendar day of twenty-four hours lasting from midnight of one day to midnight the next day.

Director - Director of the Department of Public Works of Fulton County, Georgia or the designee thereof.

Engineer - Shall be the Director of Public Works or his duly authorized representative.

Notice to Proceed - A written communication issued by the County to the Contractor authorizing it to proceed with the work, establishing the date of commencement and completion of the work, and providing other direction to the Contractor.

Program Manager - The Program Manager is the person or entity identified in writing by the County. The term "Program Manager" means the Program Manager or the Program Manager's authorized representative.

The County has contracted with the Program Manager to provide program planning that establishes direction and performance goals for the implementation of numerous projects contained in the County's Capital Improvements Program.

OCIP – "Owner-Controlled Insurance Program" is an insurance delivery method that assures the Contractor, and its subcontractors of all tiers, and other persons or interests as the County may designate in connection with the performance of the work are insured for certain prescribed Statutory Workers' Compensation, Employers Liability and Commercial General Liability, and such other coverages as the County may in writing specifically add or delete for the Project. The OCIP and contractor's insurance requirements are set out in Exhibit C – *Insurance*, attached hereto.

Project Manual - The Contract Documents.

Substantial Completion - The date certified by the Construction Manager when all or a part of the work, as established pursuant to General Condition 0700-81, is sufficiently completed in accordance with the requirements of the contract documents so that the identified portion of the work can be utilized for the purposes for which it is intended.

Work - All of the services specified, indicated, shown or contemplated by the contract documents, and furnishing by the Contractor of all materials, equipment, labor, methods, processes, construction and manufacturing materials and equipment, tools, plans, supplies, power, water, transportation and other things necessary to complete such services in accordance with the contract documents to insure a functional and complete facility.

00700-4 CODES

All codes, specifications, and standards referenced in the contract documents shall be the latest editions, amendments and revisions of such referenced standards in effect as of the date of the request for proposals for this contract.

00700-5 REVIEW OF CONTRACT DOCUMENTS

Before making its proposal to the County, and continuously after the execution of the agreement, the Contractor shall carefully study and compare the contract documents and shall at once report to the Construction Manager any error, ambiguity, inconsistency or omission that may be discovered, including any requirement which may be contrary to any law, ordinance, rule, or regulation of any public authority bearing on the performance of the work. By submitting its proposal, the Contractor agrees that the contract documents, along with any supplementary written instructions issued by or through the Construction Manager that have become a part of the contract documents, appear accurate, consistent and complete insofar as can be reasonably determined. If the Contractor has timely reported in writing any error, inconsistency, or omission to the Construction Manager, has properly stopped the affected work until instructed to proceed, and has otherwise followed the instructions of the Construction Manager, the Contractor shall not be liable to the County for any damage resulting from any such error, inconsistency, or omission in the contract documents. The Contractor shall not perform any portion of the work without the contract documents, approved plans, specifications, products and data, or samples for such portion of the work. For purposes of this section "timely" is defined as the time period in which the contractor discovers, or should have discovered, the error, inconsistency, or omission, with the exercise of reasonable diligence.

00700-6 STRICT COMPLIANCE

No observation, inspection, test or approval of the County or Construction Manager shall relieve the Contractor from its obligation to perform the work in strict conformity with the contract documents except as provided in General Condition 00700-48.

00700-7 APPLICABLE LAW

All applicable State laws, County ordinances, codes, and rules and regulations of all authorities having jurisdiction over the construction of the project shall apply to this agreement. The Contractor shall comply with the requirements of any Fulton County program concerning non-discrimination in contracting, hereto, and the Fulton County Safety Management Program, as set out in the Contractor Safety and Health Management Process, attached hereto as Exhibit "B", and the Owner Controlled Insurance Program and contractor's insurance requirements, as set out in Exhibit "C" hereto. All work performed within the right of way of the Georgia Department of Transportation and any railroad crossing shall be in accordance with Georgia Department of Transportation regulations, policies and procedures and, where applicable, those of any affected railroad. The Contractor shall comply with all laws, ordinances, codes, rules and regulations bearing on the conduct of the work as specified and the Contractor agrees to indemnify and hold harmless the County, its officers, agents and employees, as well as the Construction Manager and the Program Manager against any claim or liability arising from or based on the violation of any law, ordinance, regulation, order or decree affecting the conduct of the work, whether occasioned by the Contractor, his agents or employees.

00700-8 PERMITS, LICENSES AND BONDS

All permits and licenses necessary for the work shall be secured and paid for by the Contractor. If any permit, license or certificate expires or is revoked, terminated, or suspended as a result of any action on the part of the Contractor, the Contractor shall not be entitled to additional compensation or time. The Contractor shall obtain and keep in force at all times performance and payment bonds payable to Fulton County in penal amounts equal to 100% of the Contract price.

00700-9 TAXES

- A. The Contractor shall pay all sales, retail, occupational, service, excise, old age benefit and unemployment compensation taxes, consumer, use and other similar taxes, as well as any other taxes or duties on the materials, equipment, and labor for the work provided by the Contractor which are legally enacted by any municipal, county, state or federal authority, department or agency at the time bids are received, whether or not yet effective. The Contractor shall maintain records pertaining to such taxes and levies as well as payment thereof and shall make the same available to the County at all reasonable times for inspection and copying. The Contractor shall apply for any and all tax exemptions which may be applicable and shall timely request from the County such documents and information as may be necessary to obtain such tax exemptions. The County shall have no liability to the Contractor for payment of any tax from which it is exempt.
- B. The Contractor is obligated to comply with all local and State Sales and Use Tax laws. The Contractor shall provide the Owner with documentation to assist the Owner in obtaining sales and/or use tax refunds for eligible machinery and equipment used for the primary purpose of reducing or eliminating air or water pollution as provided for in Chapter 48-8-3 (36) and (37) of the Official Code of Georgia. All taxes shall be paid by the Contractor. All refunds will accrue to the Owner.

Acceptance of the project as complete and final payment will not be made by the Owner until the Contractor has fully complied with this requirement.

00700-10 DELINQUENT CONTRACTORS

The County shall not pay any claim, debt, demand or account whatsoever to any person firm or corporation who is in arrears to the County for taxes. The County shall be entitled to a counterclaim, backcharge, and offset for any such debt in the amount of taxes in arrears, and no assignment or transfer of such debt after the taxes become due shall affect the right of the County to offset any taxes owed against said debt.

00700-11 LIEN WAIVERS

The Contractor shall furnish the County with evidence that all persons who have performed work or furnished materials pursuant to this agreement have been paid in full prior to submitting its demand for final payment pursuant to this agreement. A final affidavit, Exhibit D, must be completed, and submitted to comply with requirements of 00700-11. In the event that such evidence is not furnished, the County may retain sufficient sums necessary to meet all lawful claims of such laborers and materialmen. The County assumes no obligation nor in any way undertakes to pay such lawful claims from any funds due or that may become due to the Contractor.

00700-12 MEASUREMENT

All items of work to be paid for per unit of measurement shall be subject to inspection, measurement, and confirmation by the Construction Manager.

00700-13 ASSIGNMENT

The Contractor shall not assign any portion of this agreement or moneys due therefrom (include factoring of receivables) without the prior written consent of the County. The Contractor shall retain personal control and shall provide personal attention to the fulfillment of its obligations pursuant to this agreement. Any assignment without the express written consent of the County shall render this contract voidable at the sole option of the County.

00700-14 FOREIGN CONTRACTORS

In the event that the Contractor is a foreign corporation, partnership, or sole proprietorship, the Contractor hereby irrevocably appoints the Secretary of State of Georgia as its agent for service of all legal process for the purpose of this contract only.

00700-15 INDEMNIFICATION [there are two indemnification clauses, the other is in the Contract Cover Sheet]

The Contractor hereby assumes the entire responsibility and liability for any and all injury to or death of any and all persons, including the Contractor's agents, servants, and employees, and in addition thereto, for any and all damages to property caused by or resulting from or arising out of any act or omission in connection with this contract or the prosecution of work hereunder, whether caused by the Contractor or the Contractor's agents, servants, or employees, or by any of the Contractor's subcontractors or suppliers, and the Contractor shall indemnify and hold harmless the County, the Construction Manager and the Program Manager, or any of their subcontractors from and against any and all loss and/or expense which they or any of them may suffer or pay as a result of claims or suits due to, because of, or arising out of any and all such injuries, deaths and/or damage, irrespective of County or Construction Manager or Program Manager negligence (except that no party shall be indemnified for their own sole negligence). The Contractor, if requested, shall assume and

defend at the Contractor's own expense, any suit, action or other legal proceedings arising therefrom, and the Contractor hereby agrees to satisfy, pay, and cause to be discharged of record any judgment which may be rendered against the County, the Construction Manager and the Program Manager arising therefrom.

In the event of any such loss, expense, damage, or injury, or if any claim or demand for damages as heretofore set forth is made against the County or the Construction Manager or the Program Manager, the County may withhold from any payment due or thereafter to become due to the Contractor under the terms of this Contract, an amount sufficient in its judgment to protect and indemnify it and the Construction Manager and the Program Manager from any and all claims, expense, loss, damages, or injury; and the County, in its discretion, may require the Contractor to furnish a surety bond satisfactory to the County providing for such protection and indemnity, which bond shall be furnished by the Contractor within five (5) days after written demand has been made therefore. The expense of said Bond shall be borne by the Contractor.

00700-16 SUPERVISION OF WORK AND COORDINATION WITH OTHERS

The Contractor shall supervise and direct the work using the Contractor's best skill and attention. The Contractor shall be solely responsible for all construction methods and procedures and shall coordinate all portions of the work pursuant to the contract subject to the overall coordination of the Construction Manager. All work pursuant to this agreement shall be performed in a skillful and workmanlike manner.

The County reserves the right to perform work related to the Project with the County's own forces and to award separate contracts in connection with other portions of the project, other work on the site under these or similar conditions of the contract, or work which has been extracted from the Contractor's work by the County.

When separate contracts are awarded for different portions of the project or other work on the site, the term "separate contractor" in the Contract Documents in each case shall mean the contractor who executes each separate County Agreement.

The Contractor shall cooperate with the County and separate contractors in arranging the introduction and storage of materials and equipment and execution of their work, and shall cooperate in coordinating connection of its work with theirs as required by the Contract Documents.

If any part of the Contractor's Work depends for proper execution or results upon the work of the County or any separate contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly report to the Construction Manager any apparent discrepancies or defects in such other work that render it unsuitable for such proper execution and results **within fourteen (14) days** of discovery of such discrepancy or defect. Failure of the Contractor to so report in writing shall constitute an acceptance of the County's or separate contractor's work as fit and proper to receive the Work, except as to any defects which may subsequently become apparent in such work by others.

Any costs caused by defective or untimely work shall be borne by the party responsible therefore.

Should the Contractor wrongfully cause damage to the work or property of the County, or to other work or property on the site, including the work of separate contractors, the Contractor shall promptly remedy such damage at the Contractor's expense.

Should the Contractor be caused damage by any other contractor on the Project, by reason of such other contractor's failure to perform properly his contract with the County, no action shall lie against the County or the Construction Manager inasmuch as the parties to this agreement are the only beneficiaries hereof and there are no third party beneficiaries and neither the County nor the Construction Manager shall have liabilities therefore, but the Contractor may assert his claim for damages solely against such other contractor. The Contractor shall not be excused from performance of the contract by reason of any dispute as to damages with any other contractor or third party.

Where the Work of this Contract shall be performed concurrently in the same areas as other construction work, the Contractor shall coordinate with the Construction Manager and the separate contractors in establishing mutually acceptable schedules and procedures that shall permit all jobs to proceed with minimum interference.

If a dispute arises between the Contractor and separate contractors as to their responsibility for cleaning up, the County may clean up and charge the cost thereof to the Contractor or contractors responsible therefore as the County shall determine to be just.

00700-17 ADMINISTRATION OF CONTRACT

The Program Manager and the Construction Manager shall provide administration services as hereinafter described.

For the administration of this Contract, the Construction Manager shall serve as the County's primary representative during design and construction and until final payment to the Contractor is due. The Construction Manager shall advise and consult with the County and the Program Manager. The primary point of contact for the Contractor shall be the Construction Manager. All correspondence from the Contractor to the County shall be forwarded through the Construction Manager. Likewise, all correspondence and instructions to the Contractor shall be forwarded through the Construction Manager.

The Construction Manager will determine in general that the construction is being performed in accordance with design and engineering requirements, and will endeavor to guard the County against defects and deficiencies in the Work.

The Construction Manager will not be responsible for or have control or charge of construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the Work, nor will it be responsible for the Contractor's failure to carry out the Work in accordance with the Contract Documents. The Construction Manager will not be responsible for or have control or charge over the acts or omissions of the Contractor, its engineers, consultants, subcontractors, or any of their agents or employees, or any other persons performing the Work.

Based on the Construction Manager's observations regarding the Contractor's Applications for Payment, the Construction Manager shall determine the amounts owing to the Contractor, in accordance with the payment terms of the Contract, and shall issue Certificates for Payment in such amount to the County.

The Construction Manager shall render interpretations necessary for the proper execution or progress of the Work. Either party to the Contract may make written requests to the Construction Manager for such interpretations.

Claims, disputes and other matters in question between the Contractor and the County relating to the progress of the Work or the interpretation of the Contract Documents shall be referred to the Construction Manager for interpretation.

All interpretations of the Construction Manager shall be consistent with the intent of and reasonably inferable from the Contract Documents and shall be in writing or in graphic form.

Except as otherwise provided in this Contract, the Construction Manager shall issue a decision on any disagreement concerning a question of fact arising under this Contract. The Construction Manager shall reduce the decision to writing and mail or otherwise furnish a copy thereof to the Contractor. The decision of the Construction Manager shall be final and conclusive unless, within thirty (30) days from the date of receipt of such copy, the Contractor files a written appeal with the Director of Public Works and mails or otherwise furnishes the Construction Manager a copy of such appeal. The decision of the Director of Public Works or the Director's duly authorized representative for the determination of such appeals shall be final and conclusive. Such final decision shall not be pleaded in any suit involving a question of fact arising under this Contract, provided such is not fraudulent, capricious, arbitrary, so grossly erroneous as necessarily implying bad faith, or is not supported by substantial evidence. In connection with any appeal proceeding under this Article, the Contractor shall be afforded an opportunity to be heard and to offer evidence in support of Contractor's appeal. Pending any final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of the Contract as directed by the Construction Manager.

The Construction Manager shall have authority to reject Work which does not conform to the Contract Documents. Whenever, in the Construction Manager's opinion, it is considered necessary or advisable for the implementation of the intent of the Contract Documents, the County shall have authority to require special inspection or testing of the Work whether or not such Work be then fabricated, installed or completed. The Contractor shall pay for such special inspection or testing if the Work so inspected or tested is found not to comply with the requirements of the contract; the County shall pay for special inspection and testing if the Work is found to comply with the contract. Neither the Construction Manager's authority to act under this Subparagraph, nor any decision made by the Construction Manager in good faith either to exercise or not to exercise such authority, shall give rise to any duty or responsibility of the Construction Manager to the Contractor, any subcontractor, any of their agents or employees, or any other person performing any of the Work.

The Contractor shall provide such shop drawings, product data, and samples as may be required by the Construction Manager and/or as required by these Contract Documents.

The Construction Manager shall conduct inspections to determine Substantial Completion and Final Completion, and shall receive and forward to the County for review written warranties and related documents required by the Contract Documents and assembled by the Contractor. The Construction Manager shall approve and issue Certificates for Payment upon compliance with Substantial and Final Completion requirements indicated in General Conditions 00700-81, 00700-82, 00700-84 and 00700-85 of this Agreement.

Except as provided in General Condition 00700-48, the Contractor shall not be relieved from the Contractor's obligations to perform the work in accordance with the contract documents by the activities or duties of the County or any of its officers, employees, or agents, including inspections, tests or approvals, required or performed pursuant to this agreement.

00700-18 RESPONSIBILITY FOR ACTS OF EMPLOYEES

The Contractor shall employ only competent and skilled personnel. The Contractor shall, upon demand from the Construction Manager, immediately remove any superintendent, foreman or workman whom the Construction Manager may consider incompetent or undesirable.

The Contractor shall be responsible to the County for the acts and omissions of the Contractor's employees, subcontractors, and agents as well as any other persons performing work pursuant to this agreement for the Contractor.

00700-19 LABOR, MATERIALS, SUPPLIES, AND EQUIPMENT

Unless otherwise provided in this agreement, the Contractor shall make all arrangements with necessary support agencies and utility companies, provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the execution and completion of the work.

00700-20 DISCIPLINE ON WORK SITE

The Contractor shall enforce strict discipline and good order among its employees and subcontractors at all times during the performance of the work, to include compliance with the Fulton County Drug Free Work Place Policy. The Contractor shall not employ any subcontractor who is not skilled in the task assigned to it. The Construction Manager may, by written notice, require the Contractor to remove from the work any subcontractor or employee deemed by the Construction Manager to be incompetent.

00700-21 HOURS OF OPERATION

All work at the construction site shall be performed during regular business hours of the FULTON County government, except upon the Construction Manager's prior written consent to other work hours. It is further understood that the Contractor's construction schedule is based on a normal 40 hours, five day work week, less Fulton County-recognized holidays. Contractors work schedule shall not violate Fulton County Noise Ordinance by working hours inconsistent with the Fulton County Noise Ordinance. The County's current noise ordinance or other applicable ordinance shall govern. If the Contractor desires to work in excess of this limit, the Contractor shall submit a written request to the Construction Manager, a minimum of five days prior to the desired work date. The Contractor shall be responsible for any additional expenses incurred by the Owner as a result of the extended work hours, including resident inspection overtime. The cost associated with resident inspector overtime shall be deducted from the Contractor monthly payment request.

00700-22 FAMILIARITY WITH WORK CONDITIONS

The Contractor shall take all steps necessary to ascertain the nature and location of the work and the general and local conditions which may affect the work or the cost thereof. The Contractor's failure to fully acquaint itself with the conditions which may affect the work, including, but not limited to conditions relating to transportation, handling, storage of materials, availability of utilities, labor, water, roads, weather, topographic and subsurface conditions, other separate contracts to be entered into by the County relating to the project which may affect the work of the Contractor, applicable provisions of law, and the character and availability of equipment and facilities necessary prior to and during the performance of the work shall not relieve the Contractor of its responsibilities pursuant to this agreement and shall not constitute a basis for an equitable adjustment of the contract terms. The County reserves the right to perform with its own forces or to contract with other entities for other portions of the project work, in which case the Contractor's responsibility to assure its familiarity with work conditions hereunder shall include all coordination with such other contractors and the County necessary to insure that there is no interference between contractors as will delay or hinder any contractor in its prosecution of work on the project. The County assumes no responsibility for any understandings or representations concerning conditions of the work made by any of its officers, agents, or employees prior to the execution of this agreement.

00700-23 RIGHT OF ENTRY

The County reserves the right to enter the site of the work by such agent, including the Construction Manager, as it may elect for the purpose of inspecting the work or installing such collateral work as the County may desire. The Contractor shall provide safe facilities for such access so that the County and its agents may perform their functions.

00700-24 NOTICES

Any notice, order, instruction, claim or other written communication required pursuant to this agreement shall be deemed to have been delivered or received as follows:

1. Upon personal delivery to the Contractor, its authorized representative, or the Construction Manager on behalf of the County. Personal delivery may be accomplished by in-person hand delivery or bona fide overnight express service.
2. Three days after depositing in the United States mail a certified letter addressed to the Contractor or the Construction Manager for the County. For purposes of mailed notices, the County's mailing address shall be 141 Pryor Street, 6th Floor, Atlanta, Georgia 30303, or as the County shall have otherwise notified the Contractor. The Contractor's mailing address shall be the address stated in its proposal or as it shall have most recently notified the Construction Manager in writing.

00700-25 SAFETYA. COUNTY-CONTRACTOR SAFETY, HEALTH AND LOSS PREVENTION PROGRAM

- (1) The Contractor shall be responsible for designing and implementing a comprehensive project-specific safety, health and loss prevention process and/or program and employee substance abuse program for this project. All Sub-Contractors must either implement their own program that meets these requirements or follow the Contractor's safety, health and loss prevention process and/or employee substance abuse program.
- (2) Safety, health and loss prevention process and/or employee substance abuse program must meet or exceed all governmental regulations (OSHA, EPA, DOT, State, local), comply and other specific Fulton County or Owner Controlled Insurance Program (OCIP) requirements, and with any other safety, health and loss prevention requirements detailed in the contract documents including the requirements of the Contractor Safety and Health Management Process which is attached hereto and incorporated herein.
- (3) Within ten (10) business days of receipt of the Notice of Award (NOA), the Contractor shall submit in writing to the County's designated Representative, the Contractor's written Safety, Health and Loss Prevention Process and/or Program and Employee Substance Abuse Program and those of Sub-Contractors that meet or exceed the requirements referenced in the contract documents. Included in this submittal will be the name and qualifications of the site safety representative.
 - a) Prior to issuing the Notice to Proceed (NTP), a meeting will be held with the Contractor and all Sub-Contractors to review the safety, health and loss prevention process and/or program requirements, submittals to be provided by the Contractor, OCIP

requirements and procedures, and the OCIP accident prevention process.

These program submittals must be reviewed and accepted by the County's designated Representative as meeting or exceeding safety, health, and loss prevention process and/or program requirements. A Notice To Proceed (NTP) with the work may not be issued until these submittals have been accepted.

B. DESIGNATION OF SAFETY REPRESENTATIVE

- a. The Contractor will designate an employee by (name, phone number, pager number) as Site Safety Representative. This employee will have sufficient training and knowledge of safety and health principles, regulations, and procedures to report to the Contractor's Project Manager and/or Superintendent. Sub-Contractors must also designate a similar employee responsible for safety and health. The Sub-Contractor's safety designee will coordinate safety activities with the general contractor's safety designee.
- b. For projects with significant risk or hazard potential or for any project for which the Contractor and its Sub-Contractors of any tier have 50 total employees or greater on site, Contractor must designate a qualified employee to be the full time Site Safety Representative. This person should address safety, health and loss prevention activities for the complete project including Sub-Contractors.

C. COUNTY'S SAFETY, HEALTH, AND LOSS PREVENTION PROCESS GUIDELINES AND REQUIREMENTS

- (1) The County and its agents reserve the right, but assume no duty, to establish and enforce safety, health, and loss prevention guidelines and to make the appropriate changes in the guidelines, for the protection of persons and property and to review the efficiency of all protective measures taken by the Contractor. The Contractor shall comply with all safety, health, and loss prevention process guidelines and requirements and changes made by the County or its agent(s). The issuance of any such guidelines or changes by the County or its agent(s) shall not relieve the Contractor of its duties and responsibilities under this Agreement, and the County or its agent(s) shall not thereby assume, nor be deemed to have assumed, any such duties or responsibilities of the Contractor.

D. COMPLIANCE OF WORK, EQUIPMENT, AND PROCEDURES WITH ALL APPLICABLE LAWS and REGULATIONS

- (1) All Work, whether performed by the Contractor or its Sub-Contractors of any tier, or anyone directly or indirectly employed by any of them, and all equipment, appliances, machinery, materials, tools and like items incorporated or used in the Work, shall be in compliance with and conform to:
 - (a) All applicable laws, ordinances, rules, regulations and orders of any public, quasi-public or other governmental authority relating to the safety of persons and their protection against injury, specifically including, but in no event limited to, the Federal Occupational Safety and Health Act of 1970, as amended, and all rules and regulations now or hereafter in effect pursuant to said Act.
 - (b) All rules, regulations, and requirements of the County or its agent(s) and its insurance carriers relating there to. In the event

of a conflict or differing requirements the more stringent shall govern.

E. PROTECTION OF THE WORK

- (1) The Contractor shall, throughout the performance of the Work, maintain adequate and continuous protection of all Work and temporary facilities against loss or damage from whatever cause, shall protect the property of the County and third parties from loss or damage from whatever cause arising out of the performance of the Work, and shall comply with the requirements of the County or its agent(s) and its insurance carriers, and with all applicable laws, codes, rules and regulations, (as same may be amended) with respect to the prevention of loss or damage to property as a result of fire or other hazards.
- (2) The County or its agent(s) may, but shall not be required to, make periodic inspections of the Project work area. In such event, however, the Contractor shall not be relieved of its aforesaid responsibilities and the County or its agent(s) shall not assume, nor shall it be deemed to have assumed, any responsibility otherwise imposed upon the assurance of Contractor by this Agreement.

F. SAFETY EQUIPMENT

1. The Contractor shall provide to each worker on the Project work area the proper safety equipment for the duties being performed by that worker and will not permit any worker on the Project work area who fails or refuses to use the same. The County or its agent shall have the right, but not the obligation, to order the removal of a worker from the Project work site for his/her failure to comply with safe practices or substance abuse policies, and the Contractor shall promptly comply with the Safety Program or Substance Abuse Program and all such orders.

G. EMERGENCIES

1. In any emergency affecting the safety of persons or property, or in the event of a claimed violation of any federal or state safety or health law or regulation, arising out of or in any way connected with the Work or its performance, the Contractor shall act immediately to prevent threatened damage, injury or loss and to remedy said violation. Failing such action the County or its agent(s) may immediately take whatever steps it deems necessary including, but not limited to, suspending the Work as provided in this Agreement.
2. The County or its agent(s) may offset any and all costs or expenses of whatever nature, including attorneys' fees, paid or incurred by the County or its agent(s) (whether such fees are for in-house counsel or counsel retained by the County or its agent), in taking the steps authorized by Section 00700-25(G)(1) above against any sums then or thereafter due to the Contractor. The Contractor shall defend, indemnify and hold the County, its officers, agents, employees and the County's O.C.I.P. Administrator harmless against any and all costs or expenses caused by or arising from the exercise by the County of its authority to act in an

emergency as set out herein. If the Contractor shall be entitled to any additional compensation or extension of time change order on account of emergency work not due to the fault or neglect of the Contractor or its Sub-Contractors, such additional compensation or extension of time shall be determined in accordance with General Condition 00700-52 and General Condition 00700-87 of this Agreement.

H. SUSPENSION OF THE WORK

1. Should, in the judgment of the County or its agent(s), the Contractor or any Sub-Contractor fail to provide a safe and healthy work place or fail to follow the safety requirements defined in the contract documents and approvals, the County or its agent shall have the right, but not the obligation, to suspend work in the unsafe areas until deficiencies are corrected. All costs of any nature (including, without limitation, overtime pay, liquidated damages or other costs arising out of delays) resulting from the suspension, by whomsoever incurred, shall be borne by the Contractor.
2. Should the Contractor or any Sub-Contractor fail to provide a safe and healthy work place or fail to follow the safety requirements defined in the contract documents and approvals after being formally notified in writing by the County or its agents of such non-compliance, the contract may be terminated following the termination provision of the contract.

I. CONTRACTOR'S INDEMNITY OF THE COUNTY FOR CONTRACTOR'S NON-COMPLIANCE WITH SAFETY PROGRAM

1. The Contractor recognizes that it has sole responsibility to assure its Safety Program is implemented and to assure its construction services are safely provided. The Contractor shall indemnify, defend and hold the County and its agents harmless, from and against any and all liability (whether public or private), penalties (contractual or otherwise), losses, damages, costs, attorneys' fees, expenses, causes of action, claims or judgments resulting, either in whole or in part, from any failure of the Contractor, its Sub-Contractors of any tier or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, to comply with the safety requirements of the contract. The Contractor shall not be relieved of its responsibilities under the safety requirements of the Contract should the County or its agent(s) act or fail to act pursuant to its rights hereunder. The County, its agents, and the County's O.C.I.P. Administrator shall not assume, nor be deemed to have assumed, any responsibilities otherwise imposed upon the Contractor by this Agreement, by virtue of providing the Safety Program Guidelines.
2. The Contractor shall not raise as a defense to its obligation to indemnify under this Subparagraph I any failure of those indemnified hereunder to assure Contractor operates safely, it being understood and agreed that no such failure shall relieve the Contractor from its obligation to assure safe operations or from its obligation to so indemnify. The Contractor also

hereby waives any rights it may have to seek contribution, either directly or indirectly, from those indemnified hereunder.

3. In any and all claims against those indemnified hereunder by any employee of the Contractor, any Sub-Contractor of any tier or anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this Subparagraph I shall not be limited in any way as to the amount or type of damages, compensation or benefits payable by or for the Contractor or any Sub-Contractor of any tier under any workers' compensation act, disability benefit or other employee benefit acts.

00700-26 BLASTING AND EXCAVATION

The Contractor acknowledges that it is fully aware of the contents and requirements of O.C.G.A. § 25-9-1 through 25-9-12 concerning blasting and excavation near underground gas pipes and facilities and shall fully comply therewith.

00700-27 HIGH VOLTAGE LINES

The Contractor acknowledges that it is fully aware of the contents and requirements O.C.G.A. § 46-3-30 through 46-3-39 concerning safeguards against contact with high voltage lines, and the Contractor shall fully comply with said provisions.

00700-28 SCAFFOLDING AND STAGING

The Contractor acknowledges that it is the person responsible for employing and directing others to perform labor within the meaning of O.C.G.A. § 34-1-1 and agrees to comply with said provisions.

00700-29 CLEAN-UP

The Contractor shall clean up all refuse, rubbish, scrap materials, and debris caused by its operations to the end that the site of the work shall present a neat, orderly and workmanlike appearance at all times.

00700-30 PROTECTION OF WORK

The Contractor shall be responsible for maintenance and protection of the work, which shall include any County-furnished supplies, material, equipment, until final completion of this agreement and acceptance of the work as defined herein. Any portion of the work suffering injury, damage or loss shall be considered defective and shall be corrected or replaced by the Contractor without additional cost to the County.

00700-31 REJECTED WORK

The Contractor shall promptly remove from the project all work rejected by the Construction Manager for failure to comply with the contract documents and the Contractor shall promptly replace and re-execute the work in accordance with the contract documents and without expense to the County. The Contractor shall also bear the expense of making good all work of other Contractors destroyed or damaged by such removal or replacement.

00700-32 DEFECTIVE WORK

If the Contractor defaults or neglects to carry out any portion of the work in accordance with the contract documents, and fails within three days after receipt of written notice from the Construction Manager to commence and continue correction of such default or neglect with diligence and promptness, the County may, after three days following receipt by the Contractor

of an additional written notice and without prejudice to any other remedy the County may have, make good such deficiencies and complete all or any portion of any work through such means as the County may select, including the use of a separate Contractor. In such case, an appropriate change order shall be issued deducting from the payments then or thereafter due the Contractor the cost of correcting such deficiencies. In the event the payments then or thereafter due the Contractor are not sufficient to cover such amount, the Contractor shall pay the difference to the County on demand.

The County may, at its option, accept defective or nonconforming work instead of requiring its removal or correction. In such case, a change order shall be issued reducing the price due the contractor to the extent appropriate and equitable. Such contract price adjustment shall be effected whether or not final payment has been made.

00700-33 WARRANTY OF NEW MATERIALS

The Contractor warrants to the County that all materials and equipment furnished under this contract will be new unless otherwise specified, and the Contractor further warrants that all work will be of good quality, free from faults and defects, and in conformance with the contract documents. The warranty set forth in this paragraph shall survive final acceptance of the work.

00700-34 CONTRACTOR'S WARRANTY OF THE WORK

If within one year after the date of issuance of the certificate of final payment pursuant to General Condition 84, or within such longer period of time as may be prescribed by law or by the term of any applicable special warranty required by the contract documents, any of the work is found to be defective or not in accordance with the contract documents, the Contractor shall correct such work promptly after receipt of written notice from the Construction Manager to do so. This obligation shall survive both final payment for the work and termination of the contract.

00700-35 ASSIGNMENT OF MANUFACTURERS' WARRANTIES

Without limiting the responsibility or liability of the Contractor pursuant to this agreement, all warranties given by manufacturers on materials or equipment incorporated in the work are hereby assigned by the Contractor to the County. If requested, the Contractor shall execute formal assignments of said manufacturer's warranties to the County. All such warranties shall be directly enforceable by the County.

00700-36 WARRANTIES IMPLIED BY LAW

The warranties contained in this agreement, as well as those warranties implied by law, shall be deemed cumulative and shall not be deemed alternative or exclusive. No one or more of the warranties contained herein shall be deemed to alter or limit any other.

00700-37 STOP WORK ORDERS

In the event that the Contractor fails to correct defective work as required by the contract documents or fails to carry out the work in accordance with contract documents, the Construction Manager, in writing, may order the Contractor to stop work until the cause for such order has been eliminated. This right of the County to stop work shall not give rise to any duty on the part of the County or the Construction Manager to execute this right for the benefit of the Contractor or for any other person or entity.

00700-38 TERMINATION FOR CAUSE

If the Contractor is adjudged bankrupt, makes a general assignment for the benefit of creditors, suffers the appointment of a receiver on account of its insolvency, fails to supply sufficient properly skilled workers or materials, fails to make prompt payment to subcontractors or

materialmen, disregards laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction, fails to diligently prosecute the work, or is otherwise guilty of a material violation of this agreement and fails within seven days after receipt of written notice to commence and continue correction of such default, neglect, or violation with diligence and promptness, the County may, after seven days following receipt by the Contractor of an additional written notice and without prejudice to any other remedy the County may have, terminate the employment of the Contractor and take possession of the site as well as all materials, equipment, tools, construction equipment and machinery thereon. The County may finish the work by whatever methods the County deems expedient. In such case, the Contractor shall not be entitled to receive any further payment until the work is completed. If the unpaid balance of the contract price exceeds the cost of completing the work, such excess shall be paid to the Contractor. If such costs exceed the unpaid balance, the Contractor shall pay the difference to the County on demand. This obligation for payment shall survive the termination of the contract. Termination of this agreement pursuant to this paragraph may result in disqualification of the Contractor from bidding on future County contracts.

00700-39 TERMINATION FOR CONVENIENCE

The County may, at any time upon written notice to the Contractor, terminate the whole or any portion of the work for the convenience of the County. The effective date of the terminations shall be provided in the written notice. Said termination shall be without prejudice to any right or remedy of the County provided herein. In addition, in the event this agreement has been terminated due to the default of the Contractor, and if it is later determined that the Contractor was not in default pursuant to the provisions of this agreement at the time of termination, then such termination shall be considered a termination for convenience pursuant to this paragraph.

00700-40 TERMINATION FOR CONVENIENCE - PAYMENT

If the Contract is terminated for convenience by the Owner as provided in this article, Contractor will be paid compensation for those services actually performed as approved by the Owner or his representative. Partially completed tasks will be compensated for based on a signed statement of completion prepared by the Project Manager and submitted to the Contractor which shall itemize each task element and briefly state what work has been completed and what work remains to be done. Contractor shall also be paid for reasonable costs for the orderly filing and closing of the project.

00700-41 TERMINATION FOR CONVENIENCE - PAYMENT LIMITATIONS

Except for normal spoilage, and except to the extent that the County shall have otherwise expressly assumed the risk of loss, there shall be excluded from the amounts payable to the Contractor the fair value, as determined by the Construction Manager, of property which is destroyed, lost, stolen or damaged so as to become undeliverable to the County or to another buyer.

00700-42 COST TO CURE

If the County terminates for cause the whole or any part of the work pursuant to this agreement, then the County may procure upon such terms and in such manner as the Construction Manager may deem appropriate, supplies or services similar to those so terminated, and the Contractor shall be liable to the County for any excess costs for such similar supplies or services. The Contractor shall continue the performance of this agreement to the extent not terminated hereunder.

00700-43 ATTORNEY'S FEES

Should the Contractor default pursuant to any of the provisions of this agreement, the Contractor and its surety shall pay to the County such reasonable attorney's fees as the County may expend as a result thereof and all costs, expenses, and filing fees incidental thereto.

00700-44 CONTRACTOR'S RESPONSIBILITIES UPON TERMINATION

After receipt of a notice of termination from the County, and except as otherwise directed by the Construction Manager, the Contractor shall:

1. Stop work under the contract on the date and to the extent specified in the notice of termination;
2. Place no further orders or subcontracts for materials, services or facilities, except as may be necessary for completion of such portion of the work under the agreement as is not terminated;
3. Terminate all orders and subcontracts to the extent that they relate to the performance of work terminated by the notice of termination;
4. Assign to the County in the manner, at the times, and to the extent directed by the Construction Manager, all of the rights, title and interest of the Contractor under the orders and subcontracts so terminated, in which case the County shall have the right, at its discretion, to settle or pay any and all claims arising out of the termination of such orders or subcontracts;
5. Settle all outstanding liabilities and all claims arising out of such termination of orders and subcontracts with the approval or ratification of the Construction Manager, to the extent the Construction Manager may require, which approval or ratification shall be final for all purposes;
6. Transfer title and deliver to the entity or entities designated by the Construction Manager, in the manner, at the times, and to the extent, if any, directed by the Construction Manager, and to the extent specifically produced or specifically acquired by the Contractor for the performance of such portion of the work as has been terminated:
 - a. The fabricated or un-fabricated parts, work, and progress, partially completed supplies, and equipment, materials, parts, tools, dyes, jigs, and other fixtures, completed work, supplies, and other material produced as a part of or acquired in connection with the performance of the work terminated by the notice of termination; and
 - b. The completed or partially completed plans, drawings, information, and other property to the work.
7. Use its best efforts to sell in the manner, at the times, to the extent, and at the prices directed or authorized by the Construction Manager, any property described in Section 6 of this paragraph, provided, however, that the Contractor shall not be required to extend credit to any buyer and further provided that the proceeds of any such transfer or disposition shall be applied in reduction of any payments to be made by the County to the Contractor pursuant to this agreement.
8. Complete performance of such part of the work as shall not have been terminated by the notice of termination; and

9. Take such action as may be necessary, or as the Construction Manager may direct, for the protection and preservation of the property related to the agreement which is in the possession of the Contractor and in which the County has or may acquire an interest.

00700-45 RECORDS

The Contractor shall preserve and make available to the County all of its records, books, documents and other evidence bearing on the costs and expenses of the Contractor and any subcontractor pursuant to this agreement upon three days advance notice to the Contractor.

00700-46 DEDUCTIONS

In arriving at any amount due the Contractor pursuant to the terms of this agreement, there shall be deducted all liquidated damages, advance payments made to the Contractor applicable to the termination portion of the contract, the amount of any claim which the County may have against the Contractor, the amount determined

By the Construction Manager to be necessary to protect the County against loss due to outstanding potential liens or claims, and the agreed price of any materials acquired or sold by the Contractor and not otherwise recovered by or credited to the County.

00700-47 REIMBURSEMENT OF THE COUNTY

In the event of termination, the Contractor shall refund to the County any amount paid by the County to the Contractor in excess of the costs properly reimbursable to the Contractor.

00700-48 SUSPENSION, INTERRUPTION, DELAY, DAMAGES

The Contractor shall be entitled to only those damages and that relief from termination by the County as specifically set forth in this agreement. The Construction Manager may issue a written order requiring the Contractor to suspend, delay or interrupt all or any part of the work for such period of time as the County may determine to be appropriate for the convenience of the County. If the performance of the work is interrupted for an unreasonable period of time by an act of the County or any of its officers, agents, employees, contractors, or consultants in the administration of this agreement, an equitable adjustment shall be made for any increase in the Contractor's costs of performance and any increase in the time required for performance of the work necessarily caused by the unreasonable suspension, delay, or interruption. Any equitable adjustment shall be reduced to writing and shall constitute a modification to this agreement. In no event, however, shall an equitable adjustment be made to the extent that performance of this agreement would have been suspended, delayed or interrupted by any other cause, including the fault or negligence of the Contractor. No claim for an equitable adjustment pursuant to this paragraph shall be permitted before the Contractor shall have notified the Construction Manager in writing of the act or failure to act involved, and no claim shall be allowed unless asserted in writing to the Construction Manager within ten days after the termination of such suspension, delay or interruption.

00700-49 COMMENCEMENT AND DURATION OF WORK

The County may issue a Notice to Proceed at any time within 120 days following execution of the contract by the County. The Contractor shall commence work pursuant to this agreement within ten days of mailing or delivery of written notice to proceed. The Contractor shall diligently prosecute the work to completion within the time specified therefore in the Agreement. The capacity of the Contractor's construction and manufacturing equipment and plan, sequence and method of operation and forces employed, including management and supervisory personnel, shall be such as to insure completion of the work within the time specified in the Agreement.

The Contractor and County hereby agree that the contract time for completion of the work is reasonable taking into consideration the average climatic conditions prevailing in the locality of the work and anticipated work schedules of other contractors whose activities are in conjunction with or may affect the work under this contract.

00700-50 TIME OF THE ESSENCE

All time limits stated in this agreement are of the essence of this contract.

00700-51 IMPACT DAMAGES

Except as specifically provided pursuant to a stop work order or change order, the Contractor shall not be entitled to payment or compensation of any kind from the County for direct or indirect or impact damages including, but not limited to, costs of acceleration arising because of delay, disruption, interference or hindrance from any cause whatsoever whether such delay, disruption, interference or hindrance is reasonable or unreasonable, foreseeable or unforeseeable, or avoidable, provided, however, that this provision shall not preclude the recovery of damages by the Contractor for hindrances or delays due solely to fraud or bad faith on the part of the County, its agents, or employees. The Contractor shall be entitled only to extensions in the time required for performance of the work as specifically provided in the contract.

00700-52 DELAY

The Contractor may be entitled to an extension of the contract time, but not an increase in the contract price or damages, for delays arising from unforeseeable causes beyond the control and without the fault or negligence of the Contractor or its subcontractors for labor strikes, acts of God, acts of the public enemy, acts of the state, federal or local government in its sovereign capacity, by acts of another separate contractor, or by an act or neglect of the County.

00700-53 INCLEMENT WEATHER

The Contractor shall not be entitled to an extension of the contract time due to normal inclement weather. Unless the Contractor can substantiate to the satisfaction of the Construction Manager that there was greater than normal inclement weather and that such greater than normal inclement weather actually delayed the work, the Contractor shall not be entitled to an extension of time therefore. The following shall be considered the normal inclement weather days for each month listed, and extensions of time shall be granted in increments of not less than one half day only for inclement weather in excess of the days set out.

| | |
|-----------|---------|
| January | 10 days |
| February | 10 days |
| March | 7 days |
| April | 6 days |
| May | 4 days |
| June | 3 days |
| July | 4 days |
| August | 2 days |
| September | 2 days |
| October | 3 days |
| November | 6 days |
| December | 9 days |

00700-54 DELAY - NOTICE AND CLAIM

The Contractor shall not receive an extension of time unless a Notice of Delay is filed with the Construction Manager within ten days of the first instance of such delay, disruption, interference or hindrance and a written Statement of the Claim is filed with the Construction Manager within 20 days of the first such instance. In the event that the Contractor fails to comply with this provision, it waives any claim which it may have for an extension of time pursuant to this agreement.

00700-55 STATEMENT OF CLAIM - CONTENTS

The Statement of Claim referenced in the preceding 00700-54 shall include specific information concerning the nature of the delay, the date of commencement of the delay, the construction activities affected by the delay, the person or organization responsible for the delay, the anticipated extent of the delay, and any recommended action to avoid or minimize the delay.

00700-56 WORK BEHIND SCHEDULE, REMEDY BY CONTRACTOR

If the work actually in place falls behind the currently updated and approved schedule, and it becomes apparent from the current schedule that work will not be completed within the contract time, the Contractor agrees that it will, as necessary, or as directed by the Construction Manager, take action at no additional cost to the County to improve the progress of the work, including increasing manpower, increasing the number of working hours per shift or shifts per working day, increasing the amount of equipment at the site, and any other measure reasonably required to complete the work in a timely fashion.

00700-57 DILIGENCE

The Contractor's failure to substantially comply with the requirements of the preceding paragraph may be grounds for determination by the County that the Contractor is failing to prosecute the work with such diligence as will insure its completion within the time specified. In such event, the County shall have the right to furnish, from its own forces or by contract, such additional labor and materials as may be required to comply with the schedule after 48 hours written notice to the Contractor, and the Contractor shall be liable for such costs incurred by the County.

00700-58 SET-OFFS

Any monies due to the Contractor pursuant to the preceding paragraph of this agreement may be deducted by the County against monies due from the County to the Contractor.

00700-59 REMEDIES CUMULATIVE

The remedies of the County under General Condition 56, 57, and 58 are in addition to and without prejudice to all of the rights and remedies of the County at law, in equity, or contained in this agreement.

00700-60 TITLE TO MATERIALS

No materials or supplies shall be purchased by the Contractor or by any Subcontractor subject to any chattel mortgage or under a conditional sales contract or other agreement by which any interest is retained by the seller. The Contractor hereby warrants that it has good and marketable title to all materials and supplies used by it in the work, and the Contractor further warrants that all materials and supplies shall be free from all liens, claims, or encumbrances at the time of incorporation in the work.

00700-61 INSPECTION OF MATERIALS

All materials and equipment used in the construction of the project shall be subject to adequate inspection and testing in accordance with accepted standards and in accordance with the requirements of the contract documents. Additional tests performed after the rejection of materials or equipment shall be at the Contractor's expense.

00700-62 CONSTRUCTION MANAGER'S PRESENCE DURING TESTING

All tests performed by the Contractor shall be witnessed by the Construction Manager unless the requirement therefore is waived in writing. The Construction Manager may perform

additional tests on materials previously tested by the Contractor, and the Contractor shall furnish samples for this purpose as requested.

00700-63 MATERIALS INCORPORATED IN WORK

The Contractor shall furnish all materials and equipment to be incorporated in the work. All such materials or equipment shall be new and of the highest quality available. Manufactured materials and equipment shall be obtained from sources which are currently manufacturing such materials, except as otherwise specifically approved by the Construction Manager.

00700-64 STORAGE OF MATERIALS

Materials and equipment to be incorporated in the work shall be stored in such a manner as to preserve their quality and fitness for the work and to facilitate inspection.

00700-65 PAYROLL REPORTS

The Contractor may be required to furnish payroll reports to the Construction Manager as required by the Owner Controlled Insurance Program.

00700-66 CONTRACTORS' REPRESENTATIVE

Before beginning work, the Contractor shall notify the Construction Manager in writing of one person within its organization who shall have complete authority to supervise the work, receive orders from the Construction Manager, and represent the Contractor in all matters arising pursuant to this agreement. The Contractor shall not remove its representative without first designating in writing a new representative. The Contractor's representative shall normally be present at or about the site of work while the work is in progress. When neither the Contractor nor its representative is present at the work site, the superintendent, foreman, or other of the Contractor's employee in charge of the work shall be an authorized representative of the Contractor.

00700-67 SPECIALTY SUB-CONTRACTORS

The Contractor may utilize the services of specialty subcontractors on those parts of the project which, under normal contracting practices, are performed by specialty subcontractors. The Contractor shall not award more than seventy-five percent of the work to subcontractors.

00700-68 INSPECTION BY THE CONSTRUCTION MANAGER

All work pursuant to this agreement shall be subject to inspection by the Construction Manager for conformity with contract drawings and specifications. The Contractor shall give the Construction Manager reasonable advance notice of operations requiring special inspection of a portion of the work.

00700-69 WORK COVERED PRIOR TO CONSTRUCTION MANAGER'S INSPECTION

In the event that work is covered or completed without the approval of the Construction Manager, and such approval is required by the specifications or required in advance by the Construction Manager, the Contractor shall bear all costs involved in inspection notwithstanding conformance of such portion of the work to the contract drawings and specifications.

00700-70 SCHEDULING OF THE WORK

- A. The work of this contract shall be planned, scheduled, executed, and reported using the critical path method (CPM) as established in Section 01320 of these Contract Documents.

- B. With ten (10) calendar days after the Notice to Proceed, the Contractor shall submit a Detailed Construction Schedule according to the requirements established herein. (Section 01 310)

00700-71 PROGRESS ESTIMATES

The Contractor shall prepare a written report for the Construction Manager's approval, on County forms, of the total value of work performed and materials and equipment obtained to the date of submission. Such a report must accompany each request for a progress payment and is subject to review and approval by the Construction Manager. Approval of a progress estimate or tendering of a progress payment shall not be considered an approval or acceptance of any work performed, and all estimates and payments shall be subject to correction in subsequent estimates. Progress payments shall be made for all completed activities and for materials suitably stored on-site.

00700-72 PROGRESS PAYMENTS

Upon approval of each monthly estimate of work performed and materials furnished, the Construction Manager shall approve payment to the Contractor for the estimated value of such work, materials, and equipment, less the amount of all prior payments and any liquidated damages. The Contractor will be paid 100 percent, less retainage, of the cost of materials received and properly stored on-site but not incorporated into the work. Payments for materials or equipment stored on the site shall be conditioned upon submission by the Contractor of bills of sale to establish the County's title to such materials or equipment. The Contractor's request for payment shall provide sufficient detail as to the work completed or materials purchased for which payment is requested to permit meaningful review by the Construction Manager.

00700-73 TIME OF PAYMENT

The Contractor will be paid within 30 days following receipt of an approved Progress Estimate. The Contractor expressly agrees that the payment provisions within this Contract shall supersede the rates of interest, payment periods, and contract and subcontract terms provided for under the Georgia Prompt Pay Act, O.C.G.A. Section 13-11-1 et seq., and that the rates of interest, payment periods, and contract and subcontract terms provided for under the Prompt Pay Act shall have no application to this Contract. The County shall not be liable for any late payment interest or penalty.

00700-74 RETAINAGE

The County shall retain from each progress payment ten percent of the estimated value of the work performed until the progress payments, including retainage, total 50 percent of the contract price. If a contract includes two or more projects or assignments that have been separately priced and have separate budgets, and the performances of such projects or assignments are not related to or dependent upon the performance of any other, the 50 per cent limit shall be based upon the price for each individual project or assignment. Thereafter, no further retainage shall be withheld so long as the Contractor is making satisfactory progress to insure completion of the work within the time specified therefore. The County may reinstate the ten percent retainage in the event the Construction Manager determines that the Contractor is not making satisfactory progress to complete the work within the time specified in this agreement or in the event that the Construction Manager provides a specific cause for such withholding. The County may also withhold retainage upon substantial completion of the work as provided in O.C.G.A. §13-10-81(c). Interest may be paid upon the retainage in accordance with Georgia law.

00700-75 PAYMENT OF SUBCONTRACTORS

The Contractor shall promptly pay each subcontractor upon the receipt of payment from the County. Such payment shall be made from the amount paid to the Contractor pursuant to the subcontractor's work. The Contractor shall also maintain the records of the percentage retained from payments to the Contractor pursuant to such subcontractor's work. The Contractor shall procure agreements from each subcontractor requiring each subcontractor to pay their subcontractors, agents and employees in a similar manner. The County reserves the right to inquire of any subcontractor, supplier, materialman, or subconsultant, the status of any indebtedness of the Contractor. The County further reserves the right to require the Contractor to designate on each instrument of payment exceeding \$400.00 to subcontractors, suppliers, materialmen, and subconsultants that such payment is on account of the work under this Contract.

00700-76 COUNTY'S RESPONSIBILITIES TO SUBCONTRACTORS

Neither the County nor the Construction Manager shall have any obligation to pay any subcontractor except as otherwise required by law.

00700-77 PROGRESS PAYMENTS - ACCEPTANCE OF WORK

Certification of progress payments, as well as the actual payment thereof, shall not constitute the County's acceptance of work performed pursuant to this agreement.

00700-78 PAYMENTS IN TRUST

All sums paid to the Contractor pursuant to this agreement are hereby declared to constitute trust funds in the hands of the contractor to be applied first to the payment of claims of subcontractors, laborers, and suppliers arising out of the work, to claims for utilities furnished and taxes imposed, and to the payment of premiums on surety and other bonds and on insurance for any other application.

00700-79 JOINT PAYMENTS

The County reserves the right to issue any progress payment or final payment by check jointly to the Contractor and any subcontractor or supplier.

00700-80 RIGHT TO WITHHOLD PAYMENT

The Construction Manager may decline to approve payment and may withhold payment in whole or in part to the extent reasonable and necessary to protect the County against loss due to defective work, probable or actual third party claims, the Contractor's failure to pay subcontractors or materialmen, reasonable evidence that the work will not be completed within the contract time or contract price or damage to the County or any other contractor on the project.

00700-81 CERTIFICATE OF SUBSTANTIAL COMPLETION

Upon the Contractor's submission of a request for a certificate of Substantial Completion, the Construction Manager shall inspect the work and determine whether the work is Substantially Complete. If the work is Substantially Complete, the Construction Manager shall issue a certificate of Substantial Completion of the work which shall establish the date of Substantial Completion, shall state the responsibilities of the County and the Contractor for security, maintenance, heat, utilities, damage to the work and insurance, and shall fix the time within which the Contractor shall complete the items submitted by the Contractor as requiring

correction or further work. The certificate of substantial completion of the work shall be submitted to the County and the Contractor for their written acceptance of the responsibilities assigned to them pursuant to such certificate.

If in the sole opinion of the Construction Manager, the work is not substantially complete, the Construction Manager shall notify the Contractor of such, in writing, and outline requirements to be met to achieve Substantial Completion.

00700-82 PAYMENT UPON SUBSTANTIAL COMPLETION

Upon Substantial Completion of the work and upon application by the Contractor and approval by the Construction Manager, the County shall make payment reflecting 100% work completed, less value of work remaining as determined by Construction Manager and any authorized retainage.

00700-83 COMMENCEMENT OF WARRANTIES

Warranties required by this agreement shall commence on the date of final completion of the project as determined under General Condition 00700-84 unless otherwise provided in the certificate of Substantial Completion.

00700-84 FINAL PAYMENT - WAIVER OF CLAIMS, DISPUTE OF FINAL PAYMENT

The acceptance of the Substantial Completion payment shall constitute a waiver of all claims by the Contractor except those previously made in writing and identified by the Contractor as unsettled at the time of application for payment at Substantial Completion and except for the retainage sums due at final acceptance. Following the Construction Manager's issuance of the certificate of Substantial Completion and the Contractor's completion of the work pursuant to this agreement, the Contractor shall forward to the Construction Manager a written notice that the work is ready for final inspection and acceptance. If after inspection the Construction Manager certifies that the work is complete and issues written notification of such to the Contractor, the Contractor shall forward to the Construction Manager a final application for payment. The Construction Manager shall issue a certificate of payment, which shall approve final payment to the Contractor and shall establish the date of final completion.

In the event the Contractor timely disputes the amount of the final payment, the amount due the CONTRACTOR shall be deemed by the CONTRACTOR and the COUNTY to be an unliquidated sum and no interest shall accrue or be payable on the sum finally determined to be due to the CONTRACTOR for any period prior to final determination of such sum, whether such determination be by agreement of the CONTRACTOR and the COUNTY or by final judgment of the proper court in the event of litigation between the COUNTY and the CONTRACTOR. The CONTRACTOR specifically waives and renounces any and all rights it may have under Section 13-6-13 of the Official Code of Georgia and agrees that in the event suit is brought by the CONTRACTOR against the COUNTY for any sum claimed by the CONTRACTOR under the Contract or for any extra or additional work, no interest shall be awarded on any sum found to be due from the COUNTY to the CONTRACTOR in the final judgment entered in such suit. All final judgments shall draw interest at the legal rate, as specified by law.

00700-85 DOCUMENTATION OF COMPLETION OF WORK

Neither the final payment nor the remaining retainage shall become due until the Contractor submits the following documents to the Construction Manager:

- A. An affidavit that all payrolls, bills for materials and equipment, and other indebtedness connected with the work have been paid or otherwise satisfied;
- B. The surety's consent to final payment; and
- C. Any other data reasonably required by the County or Construction Manager establishing payment or satisfaction of all such obligations, including releases, waivers of liens, and documents of satisfaction of debts.

In the event that a subcontractor refuses to furnish a release or waiver as required by the County or Construction Manager, the Contractor may furnish a bond satisfactory to the County to indemnify the County against such loss. In the event that any lien or indebtedness remains unsatisfied after all payments are made, the contractor shall refund to the County all moneys that the County may become compelled to pay in discharging such lien or other indebtedness, including all costs and reasonable attorney's fees.

00700-86 GOVERNING LAW

Each and every provision of this agreement shall be construed in accordance with and governed by Georgia law. The parties acknowledge that this contract is executed in FULTON County, Georgia and that the contract is to be performed in FULTON County, Georgia. Each party hereby consents to the FULTON Superior Court's sole jurisdiction over any dispute which arises as a result of the execution or performance of this agreement, and each party hereby waives any and all objections to venue in the FULTON Superior Court.

00700-87 CHANGES IN THE WORK

A. CHANGE ORDERS

1. A Change Order is a written order to the Contractor signed to show the approval and the authorization of the County, issued after execution of the Contract, authorizing a change in the Work and/or an adjustment in the Contract Sum or the Contract Time. Change Orders shall be written using forms designated by the County with Contractor providing supporting documentation as required by the Construction Manager. The Contract Sum and the Contract Time may be changed only by approved Change Order pursuant to Fulton County Procedure 800-6. The amount payable by the Change Order is payment in full for all direct and indirect costs incurred and related to the work under said Change Order, including but not limited to delays, imports, acceleration, disruption and extended overhead. A Change Order signed by the Contractor indicates the Contractor's agreement therewith, including the adjustment in either or both of the Contract Sum or the Contract Time.
2. The County, without invalidating the Contract, may order changes in the Work within the general scope of the Contract as defined in General Condition 2. The time allowed for performance of the work and the contract price to be paid to the Contractor may be adjusted accordingly.
3. The cost or credit to the County resulting from a change in the Work shall be determined in one or more of the following ways:
 - a. By mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;

- b. By unit prices stated in the Contract Documents or subsequently agreed upon;
 - c. By cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
 - d. By the method provided in Subparagraph A4 below.
- 4. If none of the methods set forth in Subparagraphs 3a, 3b, or 3c above is agreed upon, the Contractor, provided a written order signed by the Construction Manager is received, shall promptly proceed with the Work involved. The cost of such Work shall then be determined by the Construction Manager on basis of the reasonable expenditures and savings of those performing the Work attributable to the change. The cost of the change shall include only the items listed in Subparagraph 5a below, and in the case of either a decrease or an increase in the Contract Sum, an allowance for overhead and profit in accordance with the schedules set forth in Subparagraphs 5b and 6 below shall be applied to the cost or credit.
 - a. In such case, and also under Subparagraph 3a above, the Contractor shall keep and present, in such form as the Construction Manager may prescribe, an itemized accounting of all actual costs expended, together with appropriate supporting data for inclusion in a Change Order.
 - b. All hourly rate charges shall be submitted to the Construction Manager for prior review and approval. All hourly rate charges shall be properly supported as required by the Construction Manager with certified payrolls, or their acceptable equivalent. When authorized to proceed for a given change and actual expenditures have been made prior to execution of a Change Order for the entire change, such actual expenditures may be summarized monthly, and if approved, incorporated into a Change Order. When both additions and credits covering related Work or substitutions are involved in any one change, the allowance for overhead and profit shall be figured on the basis of the net increase or decrease, if any, with respect to that change.
- 5. In Subparagraphs 3 and 4 above, the items included in "Cost and "Overhead" shall be based on the following schedule:
 - a. Unless otherwise provided in the Contract Documents, "Cost" shall be limited to the following: cost of materials incorporated into the Work, including sales tax and cost of delivery; cost of direct labor (labor cost may include a pro rata share of foreman's account of the change) including social security, old age and unemployment insurance, and fringe benefits required by agreement or custom; workers' or workmen's compensation insurance; rental value of equipment and machinery; costs for preparing Shop Drawings.
 - b. Unless otherwise provided in the Contract Documents, "Overhead" shall include the following: bond and insurance premiums including increase and decreases from change in the Work, supervision, superintendence, construction parking, wages of timekeepers,

watchmen and clerks, small tools, consumable supplies, expendables, incidentals, general office expense, the cost of additional reproduction for the Contractor's subcontractors beyond that agreed upon in the Contract Documents, construction parking, any additional costs of craft supervision by the Contractor's or subcontractors' superintendents, and overhead charges which would be customary and expended regardless of the change in the Work due to other overlapping activities which are included as part of the original Contract, and all other expenses not included in "Cost" above.

- c. In the event that a change is issued by the County which would require the expenditure of substantial amounts of special supervision (beyond the foreman level) by the Contractor, the Contractor may, at the sole direction of the Construction Manager, be allowed to incorporate these charges into the agreement cost for the change.
6. In Subparagraphs 3 and 4 above, the allowance for overhead and profit combined, included in the total cost or credit to the County, shall be based on the following schedule:
 - a. For the Contractor, for any work performed by the Contractor's own forces, ten (10) percent of the cost.
 - b. For the Contractor, for any work performed by a Contractor's subcontractor, five (5) percent of the amount due the subcontractor.
 - c. For each subcontractor or sub-subcontractor involved, for any work performed by that subcontractor's or sub-subcontractor's own forces, ten (10) percent of the cost.
 - d. For each subcontractor, for work performed by a sub-subcontractor, five (5) percent of the amount due to the sub-subcontractor.
 - e. Cost to which overhead and profit is to be applied shall be determined in accordance with Subparagraph 5 above unless modified otherwise.
7. In order to facilitate checking of quotations for extras or credits, all proposals or bids, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs, including labor cost, materials and subcontracts. Labor and materials shall be itemized in the manner defined in Subparagraph 4 above. Where major cost items are subcontracts, they shall be itemized also. In no case shall a change be approved without such itemization.
8. No payment shall be made for any changes to the contract that are not included in a fully executed Change Order.

B. CONCEALED, UNKNOWN AND DIFFERING CONDITIONS

- a. Should concealed conditions be encountered in the performance of the Work below the surface of the ground, or should concealed or unknown conditions

in an existing structure be at variance with the conditions indicated by the Contract Documents, or should unknown physical conditions below the surface of the ground or concealed or unknown conditions in an existing structure of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this Contract, be encountered, the Contract Sum and Contract Time shall be equitably adjusted by Change Order upon request by either party made **within twenty (20) days after the first observance** of the conditions. No such request for equitable adjustment shall be valid unless the Contractor complies with this (20) days notice and Subparagraph C.1. below.

- b. The Contractor shall promptly, and before such conditions are disturbed, notify the Construction Manager in writing of any claim of concealed, unknown or differing conditions pursuant to this paragraph. The Construction Manager shall authorize the Engineer to investigate the conditions, and if it is found that such conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performance of any part of the Work under this Contract, whether or not changed as a result of such conditions, an equitable adjustment shall be recommended to the Construction Manager.
- c. No claim of the Contractor under this clause shall be allowed unless the Contractor has given the notice required in (a) above, prior to disturbing the condition.
- d. No claim by the Contractor for an equitable adjustment shall be allowed if asserted after final payment under this Contract.
- e. Any materially differing site condition as between what is shown on the Drawings and Specifications and actually found on site shall be immediately reported to the Construction Manager in writing prior to the commencement of Work at the site. Failure of the Contractor to notify the Construction Manager in writing of the differing site condition prior to performance of Work at the site shall constitute a waiver of any claim for additional monies. Any Change Order necessitated by the differing site condition shall be processed as provided under "Changes in the Contract".

C. REQUESTS FOR ADDITIONAL COST

- a. If the Contractor wishes to request an increase in the Contract Sum, the Contractor shall give the Construction Manager written notice thereof within twenty (20) days after the occurrence of the event, or identification of the conditions, giving rise to such request. This notice shall be give by the Contractor before proceeding to execute the Work, except in an emergency endangering life or property in which case the Contractor shall proceed in accordance with Paragraph 10.7 of this Agreement, and Subparagraph A.4 above. No such request shall be valid unless so made within the twenty (20) days specified above. If the County and the Contractor cannot agree on the amount of the adjustment in the Contract Sum, it shall be determined by the Construction Manager. Any change in the Contract Sum resulting from such claim shall be documented by Change Order.

- b. If the Contractor claims that addition cost is involved because of, but not limited to (1) any written interpretation pursuant to General Condition 00700-17 of this Agreement, (2) any order by the County to stop the Work pursuant to General Conditions 00700-25 and 00700-37 of this Agreement where the Contractor was not at fault, or any such order by the Construction Manager as the County's agent, or (3) any written order for a minor change in the Work issued pursuant to Paragraph D below, the Contractor shall submit a request for an increase in the Contract Sum as provided in Subparagraph C.1 above. No such claim shall be valid unless the Contractor complies with Subparagraph C.1 above and approved by the County pursuant to Change Order Policy 800-6.

D. MINOR CHANGES IN THE WORK

- a. The Construction Manager may order minor changes in the Work not involving an adjustment in the Contract Price, extension of the time allowed for performance of the work and not inconsistent with the intent of the Contract Documents. Such changes shall be effected by a written Change Directive issued by the Construction Manager, and shall be binding on the County and the Contractor. The Contractor shall carry out such written orders promptly.

E. BONDS

- a. If any change order results in an increase in the contract price, the contractor shall increase the penal sum of the performance and payment bonds to equal the increased price.

00700-88 DISAGREEMENT WITH ORDERS FOR CHANGE

Contractor's written acceptance of a Change Order or other order for changes shall constitute his final and binding agreement to the provisions thereof and a waiver of all claims in connection therewith, whether direct or consequential in nature. Should Contractor disagree with any order for changes, he may submit a notice of potential claim to the Construction Manager, at such time as the order is set forth in the form of a Change Order. Disagreement with the provisions of an order for changes shall not relieve Contractor of his obligation under Clause 00700-87, Change Orders.

00700-89 NO WAIVER OF REMEDIES

Exercise by the County of any remedy is not exclusive of any other remedy available to County and shall not constitute a waiver of any such other remedies. Failure of the County to exercise any remedy, including breach of contract remedies, shall not preclude the County from exercising such remedies in similar circumstances in the future.

00700-90 LAND AND RIGHTS-OF-WAY

The owner will provide, as indicated in the Contract Documents and prior to Notice to Proceed, the lands upon which the work is to be done, right-of-way for access thereto, and such other lands which are designated for the use of the Contractor. The Contractor shall confine the Contractor's work and all associated activities to the easements and other areas designated for the Contractor's use. The Contractor shall comply with any limits on construction methods and practices which may be required by easement agreements. If, due to some unforeseen reason, the necessary easements are not obtained, the Contractor shall receive an equitable extension of contract time dependent upon the effect on the critical path of the project schedule or the County may terminate the Contract for its convenience.

00700-91 COORDINATION WITH STATE DEPARTMENT OF TRANSPORTATION

- a. No clearing or grading shall be completed by Contractor within the State Department of Transportation (DOT) area under construction. The Contractor must coordinate his construction scheduling with DOT.
- b. If the Contractor begins work before DOT's completion date, he must obtain the approval of DOT before starting work in the area. The state DOT has the right to stop the Contractor's work the DOT area.
- c. The Contractor shall receive no additional compensation or damages resulting from delay or work stoppage from DOT actions or scheduling.
- d. Contractor shall obtain DOT drawings of the DOT, project area for verification of road geometry, storm drains, etc. from Georgia Department of Transportation or Fulton County. The Contractor is responsible for obtaining any pertinent DOT revisions.

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END OF SECTION # 00700

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION**SECTION 01010****SUMMARY OF WORK****PART 1 GENERAL****1.01 PROJECT DESCRIPTION**

This project consists of relocating approximately 355 linear feet of 10-inch sewer pipe located in South Fulton in undeveloped property off of Interstate 20 at Fulton Industrial Boulevard near Shirley Drive. This project is required by EPD Consent Order EPD-WQ-4317. The existing pipe is exposed and must be replaced, sealed, abandoned and relocated to eliminate an aerial span as generally described in the Project Drawings and the site survey is complete with relocation details. (See Reference Documents – attached)

1.02 PROJECT REQUIREMENTS

This project shall include, but not be limited to site inspection, verification of utility locations, permitting, manhole replacement, pipe connection to existing manholes, bypass pumping, traffic control plan, site restoration, clearing, paving, safety plan and requirements to seal, abandon and relocate existing sanitary sewer line and install ductile iron pipe by the open cut method and reconnecting to existing sewer system ("Work"). The Contractor shall be responsible for quality control including testing procedures and television inspection in accordance with the Contract documents. The Work is further described as follows:

1. The Contractor shall conduct a site reconnaissance to review and examine the project area. The Contractor will inspect the site for site access, work, equipment, material storage, installation and relocation requirements and observe site conditions including elevations of manholes (inverts, surface, etc.) and land within the existing and proposed relocation easement and property lines. All field measurements, equipment requirements and proper installation procedures in conformance with the Contract Documents are the sole responsibility of the Contractor.
2. The Contractor shall verify all overhead and underground utility locations prior to construction and shall be responsible for notifying all utility companies prior to commencing work in the project area. The Contractor shall be responsible for coordinating its work and that of the involved utilities in the project area. The Contractor shall be responsible for repair, replace or otherwise make good to the satisfaction of the utility owner all utilities damaged by the Contractors work.
3. The Contractor shall obtain, maintain and comply with all permits required for the construction of the project.
4. The Contractor will be responsible for post-television inspection of pipelines which shall be performed by experienced personnel trained in locating breaks, obstacles and verification

of service connections by closed circuit color television. Television inspection shall include the following:

- a. Video tapes or DVDs (post-) shall be submitted to the County through the Construction Manager.
 - b. The Contractor shall submit a minimum of three (3) copies of the Video tapes or DVDs to the County. Video tapes or DVDs shall remain property of the County; Contractor may a copy for its records.
 - c. All flows tributary to reach of sewer being inspected are to be completely bypassed around the reach during inspection if necessary or as required by the County.
 - d. Post- construction video taping shall be performed for each reach of sewer including voice description and stationing of services indicated. Data and stationing shall be displayed on video.
 - e. Should any portion of the inspection tapes be of inadequate quality or coverage, as determined by the County, the Contractor shall have the rejected portion re-inspected and video taped at no additional cost or time to the County.
5. Contractor shall remove aerial span of approximately 200 linear feet of existing 10-inch sewer pipe and perform an open cut removal of the remaining approximately 143 linear feet of sewer pipe along Segment 5 as shown in the project Drawings and site survey.
6. Contractor shall abandon in place (underground) approximately 90 linear feet of sewer pipe and lid seal two (2) manholes along Segment 4 as shown in the project Drawings and site survey.
7. Contractor shall install approximately 355 linear feet of 10-inch ductile iron pipe along proposed relocation area as detailed in the site survey and project Drawings.
8. Contractor shall replace manhole 18.0 and manhole 20.0 and connect to newly installed pipe as shown in project Drawings attached.
9. The Contractor, when and where required, shall provide bypass pumping for the relocation process. The pumps and by-pass lines shall be of adequate capacity and size to handle all flows under different weather conditions. The Contractor shall be responsible for continuity of sanitary sewer service during the execution of the work. If sewage backup occurs the Contractor shall be solely responsible for clean-up, repair, property damage cost and claims.
10. The Contractor shall transport, handle, and store pipe and fittings as recommended by the manufacturer and as required to prevent damage. If new pipe and fittings become damaged before or during installation, it shall be repaired as recommended by the manufacturer or replaced as required by the Construction Manager at the Contractor's expense, before proceeding further.

11. After the sewer pipe line has been installed, internal inspection with CCTV shall be carried out as required. The finished tape shall be continuous over the entire length of the sewer between two manholes and be free from visual defects. Defects which may affect the integrity, strength or the performance of the pipe in the opinion of the Construction Manager shall be repaired or replaced at the Contractor's expense.
12. The Contractor is responsible for re-seeding, restoring landscaping and asphalt access road that was impacted from the construction activities.
13. Final as-built construction drawings shall be provided. As-built construction drawings shall be true to the installed location, layout and details of pipe, manholes, structures and utilities.
14. The Work performed under this contract shall be warranted to be free from defects in material and workmanship for a period of ten (10) years from the date of acceptance.

All Work including purchasing, permitting, installing new sanitary sewer pipe and re-paving must be completed within 90 calendar days of the Owner's Notice to Proceed. The Work shall be performed according to the requirements of the drawings and specifications.

END OF SECTION 01010

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 01011
UNIQUE REQUIREMENTS

PART 1 GENERAL

1.01 SCOPE

- A. The scope of this Section is to convey to the Contractor unique and unusual stipulations and requirements which have been established for this Project. Some of the stipulations and requirements are a result of negotiations with various entities and organizations which have an interest in this Project. Some requirements are based on technical aspects of the Project which are not otherwise conveyed to the Contractor. The provisions of this Section shall supersede the provisions of the Division 1 through 17 Specifications but shall not supersede the Bidding Requirements, Contract Forms or Conditions of the Contract.

1.02 EXISTING OPERATIONS (not used)

1.03 SEQUENCING

- A. General
1. The Contractor shall be solely responsible for sequencing of all activities.
 2. The completion of specific preliminary sequencing tasks indicated will be required prior to any significant site demolition.
- B. Notify the Owner at least 72 hours prior to starting to relocate piping or taking existing components out of service.
- C. Sequence Submittal
1. Submit a proposed sequence in accordance with Section 01340 with appropriate times of starting and completion of tasks to Engineer for review.
 2. The Contractor may propose alternatives to the sequencing constraints to that shown in this Section in an attempt to reduce the disruption of the operation of the existing facility or streamline the tasks of this Contract. The Owner and Engineer are not obligated to accept any of these alternatives.

1.04 SEQUENCING CONSTRAINTS

- A. The following construction sequencing constraints are to emphasize critical tasks of the Work in this Contract. It is not a complete list of all work to be completed.
1. All work and activities must remain within County easements.
 2. Clearing and grubbing within the easement must be done in order to gain access to portions of the pipeline.

1.05 CONTRACTOR'S SUPERINTENDENCE

- A. The CONTRACTOR shall submit, with the initial Detailed Construction Schedule, a detailed manpower organization chart indicating the management and supervisory personnel for the control and supervision of all aspects the WORKS.

Particular reference must be made to those personnel proposed for overall project direction, co-ordination and programming roles. Only in exceptional circumstances will substitute candidates be allowed when work commences. Under these exceptional circumstances only a candidate may be submitted with equivalent or better experience.

- B. Particulars of nominees for all key positions shall be provided, including detailed resume, giving qualifications and previous experience. The key positions, which may be combined or separate, shall include:

1. Project Director
2. Project Manager
3. Site Safety Manager/Supervisor
4. Clearing and Grubbing Manager/Supervisor
5. Internal Sewer Condition Assessment Manager/Supervisor
6. Sewerage Rehabilitation Installation Manager/Supervisor
7. Sewerage Rehabilitation Testing Manager/Supervisor

In general, managers shall have a minimum of five years experience and supervisors a minimum of three years experience.

- C. The organization chart shall be an accurate statement of the CONTRACTOR'S intention.

1.06 WORKING HOURS

- A. The CONTRACTOR'S representative on site directly responsible for the work shall be immediately contact-able at any time during the normal working day and shall immediately respond to all or any query by the CONSTRUCTION MANAGER.
- B. Adequate means of communication by telephone, portable radio, CB, walkie-talkies, or other electronic means of communication must be established at all times as part of the routine work methodology and in case of an emergency, between all relevant points of any activity along the length of the sewer.
- C. Daytime working is defined as 0700 to 1900 hours. No work shall be carried out at any other time or on a bank holiday, including Saturday and Sunday, without permission in writing from the CONSTRUCTION MANAGER except when the work is unavoidable or absolutely necessary for the saving of life, property or for the safety of the works, in which case the CONTRACTOR shall immediately notify the CONSTRUCTION MANAGER of such works.
- D. Night work shall be defined as the period of 1900 to 0700 hours.
- E. Weekend working shall be defined as the period from 0700 hours Saturday to 0700 hours Monday.
- F. Work on principal highway routes shall be restricted to certain hours as directed by the CONSTRUCTION MANAGER. No work will be permitted outside these hours.

1.07 NOISE CONTROL

- A. The CONTRACTOR shall employ the "best practicable means" to minimize and mitigate noise as well as vibration resulting from operations. Mitigation measures

shall include the utilization of sound suppression devices on all equipment and machinery particularly in residential areas and in the near vicinity of hospitals and schools, especially at night.

- B. Sound reduced equipment is defined as equipment which emits a sound pressure level not exceeding 75dB(A) at 30-feet in any direction from the center of the machine if the equipment is to be used between the hours of 0700 and 1900, and 65 dB(A) if used outside those hours.
- C. The CONTRACTOR shall inform the CONSTRUCTION MANAGER before the commencement of the Works, or of any significant phase thereof, or immediately any change in the method of working not previously notified is affected.
- D. Any pumps, generators, combination cleaners or other noise emitting equipment shall be suitably screened to minimize nuisance and pollution.
- E. This shall not be taken as preventing or prohibiting the execution of works which are absolutely necessary for the saving of life or property or for the safety of the works. The use of machinery or equipment in an emergency situation shall be notified as soon as practicable to the CONSTRUCTION MANAGER

1.08 TRAFFIC MANAGEMENT

- A. The CONTRACTOR shall comply with the relevant provisions related to traffic control and safety published by Fulton County and the Georgia Department of Transportation.
- B. The work shall be carried out so as not to interfere unnecessarily or improperly with the passage of pedestrians and vehicles or the access to use public or private roads; footpaths and properties.
- C. For work requiring occupation of the public highway the CONTRACTOR shall comply at all times with the requirements of the relevant Traffic Signs Manual concerning construction works in the highway. The CONTRACTOR shall supply and place and maintain warning signs to the satisfaction of the CONSTRUCTION MANAGER. These signs shall be removed when work is not in progress.
- D. The CONTRACTOR shall not commence any works which affect vehicular passage along the highway until details of all traffic management safety and control measures necessitated by the works have been submitted to the CONSTRUCTION MANAGER for consideration and are fully operational.
- E. If conditions are such that temporary traffic signals and signs, illuminated or otherwise, are necessary, then these will be provided and maintained by the CONTRACTOR.
- F. Where the volume of traffic on any road makes it impracticable or hazardous to carry out work during normal working hours, the CONTRACTOR shall apply to the CONSTRUCTION MANAGER for permission to work at night or weekends. The CONTRACTOR shall also make all necessary arrangements to enable work to be carried out at manholes which are covered by parked vehicles.
- G. Should the CONTRACTOR wish to divert traffic onto any temporary routes or to close a roadway or lane of traffic he shall submit any such request to CONSTRUCTION MANAGER at least 8 weeks in advance of the proposed diversion.

- H. The CONTRACTOR shall provide and allow for watching and lighting the site, provide safe passage to pedestrians and vehicular traffic at all times at no additional cost to the OWNER.
- I. If the use of traffic lights and associated signs is requested by Fulton County or requested by CONSTRUCTION MANAGER during the course of the work, then the CONTRACTOR shall make his own arrangements to provide these at no additional cost to the OWNER.
- J. The CONTRACTOR shall notify the local police of his presence when working on highways and shall keep the police aware of his appropriate area of working at all times. The CONTRACTOR shall make available to the police a telephone number of a person who may be contacted during the survey in order to resolve any queries.
- K. Where the volume of traffic or parked vehicles makes it impracticable or hazardous to carry out the work during normal working hours the CONTRACTOR shall apply to CONSTRUCTION MANAGER for permission to work outside of normal working hours.
- L. The CONTRACTOR shall comply with any special traffic requirements of Fulton County and any other municipality in which the work may be conducted.

1.09 WARRANTIES

For the purposes of this project the following assumptions shall be made by the Contractor:

- A. The design life of all lining systems shall be 50 years.
- B. The warranty period against any defects being found in CONTRACTORS workmanship shall be two years.
- C. The warranty period against any shortcoming in material performance shall be five years.
- D. Warranty against sealants breaking down shall be given for a period of ten years.

OWNER reserves the right to inspect all rehabilitated and sealed manholes and sewers at any time within twelve months of construction for defects in workmanship and effectiveness. If any form of defect is found then the CONTRACTOR shall carry out approved remedial work to ensure that the rehabilitation or seal is/are fully effective. Payment may be either withheld from retention monies or other outstanding payments due to the contractor, whichever the CONSTRUCTION MANAGER deems appropriate in order to complete the remedial work.

END OF SECTION # 01011

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION**SECTION NO. 01016****OCCUPANCY****PART 1 - GENERAL****1.01 PARTIAL OCCUPANCY BY OWNER**

- A. Whenever, in the opinion of the Owner, any section or portion of the Work is in suitable condition, it may be put into use upon the written order of the Owner and such usage will not be held in any way as an acceptance of said work, or any part thereof, or as a waiver of any of the provisions of these Specifications and the Contract. Pending final completion and acceptance of the Work, all necessary repairs and replacements, due to defective materials or workmanship or operations of the Contractor, for any section of the Work so put into use shall be performed by the Contractor at Contractor's own expense.

END OF SECTION # 01016

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 01025
APPLICATIONS FOR PAYMENT

1. 01 SUBMITTAL OF APPLICATION FOR PAYMENT

- A. The County will make payments to the Contractor on the basis of a duly certified and approved estimate of the Work completed through the 25th day of each calendar month, as reviewed by the Construction Manager, provided the estimate was submitted in accordance with the following requirements:
- B. The Applications for Payment shall be itemized as directed by the Construction Manager. Applications for Payment are to serve as certification by the Contractor as to the status of the Work. All monthly payments invoiced by the Contractor to the County shall be based on Completion of the work in accordance with the cost-loaded Construction Schedule, and Schedule of Values.
- C. On or prior to the 20th day of each month, the Contractor will prepare a preliminary, itemized Application for Payment for work completed and the value of any stored materials, projected through the 25th of the current month, as well as additional information required herein or as Construction Manager may require to verify and approve the amount of payment applied for. The Contractor may be requested to review the Application for Payment with the Construction Manager on the jobsite in order to verify work in place or the location of stored materials.
- D. After the Construction Manager has advised the Contractor of the acceptability of the Application for Payment, and on or before the 25th day of each month, the Contractor shall submit to the Construction Manager an itemized, notarized Application for Payment. The Contractor shall also submit items in paragraph (I) and if requested, additional documentation, including, but not limited to, all sworn statements, waivers and releases of liens and claims, including those required of sub-contractors of any tier as may be requested by the Construction Manager, reflecting all retainage, previous Applications for Payment, payment for labor and material, payment for materials stored and other documentation and requirements related to Work performed as provided elsewhere in the Contract Documents or as required by the Construction Manager.
- E. Late applications will not be accepted for any reason whatsoever. If the Contractor is late with its pay application, it will not be processed until the next pay cycle.
- F. The Contractor shall submit the Application for Payment in four (4) paper hardcopies and one electronic copy on CD-ROM. An electronic version of the standard forms will be provided to the Contractor at or before the Pre-Construction Conference. Each copy shall display an original signature by a duly authorized agent of the Contractor. The application shall be generated by the use of Microsoft Excel or other applications package acceptable to the Construction Manager, and provided that the forms generated are in the format acceptable to the Construction Manager. All four copies shall be individually notarized.
- G. Nothing in this section is meant to be in conflict with the Contract. Any inconsistencies between this section and the contract, the contract shall prevail.

- H. For a payment submittal to be accepted by the Construction Manager all the conditions as defined in the contract must be met by the Contractor. Failure to meet these requirements constitutes non-submittal of the payment request.
- I. With each payment submittal the Contractor must include:
1. a reasonably detailed description of all Work actually completed during the period of the payment submittal
 2. an up-to-date and annotated Construction Schedule which shall reflect the status of the Contractor's Construction Schedule since the date of the last payment submittal
 3. an up-to-date and annotated Schedule of Values indicating the percentage of Work completed by activity and milestone for the project.
 4. revisions to the critical path schedule which shall reflect changes in the critical path schedule since the date of the last payment submittal.
 5. notice of any liens or "Encumbrances which have been filed, together with evidence that the Contractor has bonded or discharged such liens or encumbrances
 6. a complete and filled-out Exhibit G, Technical Proposal Form 8
 7. construction Progress Photos
 8. any other documents or information relating to the Work or this Contract requested by the Construction Manager as may be required by Applicable Law or this Contract
- J. Schedule Of Values Utilization
1. Applications for Payment: The Schedule of Values, that is acceptable to the County, shall be the basis for the Contractor's applications for payment.
 2. Changes to the Schedule of Values: The County shall have the right to require the Contractor to alter the value or add/delete categories listed on the Schedule of Values at any time for the following reasons:
 - a) The Schedule of Values appears to be incorrect or unbalanced.
 - b) A revision to the segregation of values is required due to the Contractor revising the sequence of construction or assembly of building components, which in turn invalidates the Schedule of Values.
 - c) Change Orders are issued to the Contractor and require incorporation into the Schedule of Values.
- K. At no time during the contract will the Contractor be allowed to bill for an amount which is in excess of the amount of its contract (total bid amount), including all signed and executed change orders.

1.02 PAYMENT FOR MATERIALS STORED ON SITE

- A. As provided in the Contract Documents, payments will be made on account of materials or equipment not incorporated in the Work, but delivered and suitably stored at the site, provided such materials are stored according to the provisions of the Contract Documents and the satisfaction of the Construction Manager.
- B. The Contractor shall include with his payment request an itemization of the quantity of such materials, and shall document with invoices, Bills of Sale or other documentation acceptable to the Construction Manager, the cost of said materials.

1.03 PAYMENT FOR MATERIALS STORED OFF SITE

- A. Payment for materials stored at a location off the project site will not be made under any circumstance.

1.04 PROGRESS PAYMENTS

- A. If the Contractor has made Application for Payment as detailed herein, the Construction Manager will confirm the amounts to be paid to the Contractor, certify each copy by original signature, retain one signed copy for its project files, and transmit the remaining copies as Certification for Payment to the County.
- B. The Contractor may expect payment from the County within forty-five (45) days of the Certification by the Construction Manager of the Contractor's submittal of an Application for Payment per Paragraph 1.01 of this Section. Any follow-up inquiries on the status of payments shall be through the Construction Manager. The Contractor is not permitted to contact the County directly with any payment inquiries.
- C. No approval of any application for progress payment, or any progress payment, or any partial or entire use of occupancy of the Work or the Project by the County, shall constitute an acceptance of any Work not in accordance with the Contract Documents.
- D. Progress Payments will be delivered to the Contractor via U.S. Mail only.

1.05 RETAINAGE

- A. The County shall withhold a retainage amount of each monthly payment otherwise due and payable to the Contractor in the amount of 10 percent. Such holdbacks shall continue until the Contractor satisfactorily completes 50 percent of the value of the Design/Build Work performed is satisfactory to the County, at which time further payments will not be subject to retainer holdbacks. The County may, however, withhold additional retainage after 50 percent of the work is complete pursuant to the Design/Build Contract. The retained amount shall be released upon Acceptance except for amounts equal to 200 percent of the value of any outstanding Design/Build Work.

1.06 FINAL PAYMENT/CLOSE-OUT OF PROJECT

- A. Following acceptance and the project milestone "**Complete**" has been achieved the project must be closed-out for the Contractor to receive the Final Payment. The Contractor shall provide as part of the project submittals the following documents:
 - 1. An affidavit that all payrolls, bills for materials and equipment, and other indebtedness connected with the work have been paid otherwise

satisfied; each subcontractor must also provide an affidavit.

2. The surety's and guarantor's consent to final payment
3. Certificate of Occupancy when applicable
4. Contractor Statement of Completion of all Work
5. OCIP Signoff –Exhibit B
6. A Final Exhibit G – Prime Contractor and Sub-contractor Utilization Report (TPP8)
7. Notification of Warranty Period for all major pieces of equipment
8. Transmittals signed by Construction Manager for all deliverables
9. A final invoice for the Work

END OF SECTION # 01025

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION**SECTION NO. 01045****CUTTING PATCHING****1. GENERAL**

- A. "Cutting, Coring and Patching" is hereby defined to include, but not necessarily be limited to, removal, cutting (including excavation), coring, fitting and patching of nominally completed and previously existing Work, as shown or required in order to accommodate the coordination of Work, installation of new Work, to uncover other Work for access or inspection, remove and replace defective Work or Work not conforming to the Contract Documents, or to obtain samples for testing or for similar purposes.
- B. For existing buildings, the sizes, dimensions, and elevations shown on the drawings represent measurements which should be regarded as typical dimensions; actual dimensions may and will vary due to prevailing building practices at the time of construction, and building settlement over time.
- C. The requirements of this section apply generally to all aspects of the Work, including mechanical, electrical and special systems work, unless otherwise indicated.
- D. The Design/Builder shall note that it is its responsibility to coordinate the locations and sizes and to cut or core all openings and penetrations for all trades involved in the Work of this Contract. Any openings and penetrations which may be shown on drawings provided by the County are intended only to assist the Design/Builder in coordinating the major openings and penetrations and are not representative of all openings which will be required to complete the work.

2. QUALITY ASSURANCE

- A. The Design/Builder shall not cut, core and patch structural work in a manner resulting in a reduction of load-carrying capacity or load/deflection ratio. Prior to cutting, coring and patching structural work, obtain Construction Manager's approval to proceed with cutting and patching as proposed in a written submittal by the Design/Builder.
- B. The Design/Builder's submittal requesting consent to proceed with cutting, coring and patching structural work must include:
 - 1. Identification of the Project
 - 2. Description of the affected Work
 - 3. Necessity for cutting or coring
 - 4. Affects on other Work, and on the structural integrity of the Work
 - 5. Description of the proposed Work, which designates:
 - a. Scope of cutting, coring and patching
 - b. Subcontractor who will execute the work
 - c. Products proposed to be used
 - d. Extent of refinishing required
 - 6. Alternates to cutting, coring and patching

7. Designation of the responsibility for the costs associated with the cutting, coring and patching
 8. Evidence of review and approval of proposed cutting or coring by Design/Builder's Structural Engineer
- B. Prior to performing any cutting, coring and patching as extra work, the Design/Builder shall have submitted a written cost proposal and received written direction from the Construction Manager.
- C. The Design/Builder shall be responsible for providing, locating, and installing all embeds necessary for the completion of the Work, so as to avoid unnecessary cutting and patching.

3. OPERATIONAL AND SAFETY LIMITATIONS

- A. The Design/Builder shall not cut and patch operational elements and safety-related components in a manner resulting in a reduction of capacities to perform in the manner intended including energy performances, or resulting in decreased operational life, increased maintenance, or decreased safety.
- B. The Design/Builder shall not cut, core drill or otherwise penetrate any post-tensioned cast-in-place concrete elements.

4. VISUAL REQUIREMENTS

The Design/Builder shall not cut and patch work which is exposed on the exterior, or exposed on the interior in occupied spaces of the building, in a manner resulting in a reduction of visual qualities, or resulting in substantial evidence of cut and patch work, as judged by the Construction Manager. The Design/Builder shall remove and replace work judged by the Construction Manager to be cut and patched in a visually unsatisfactory manner.

5. MATERIALS

The Design/Builder shall provide materials for cutting and patching which will result in equal or better work than work being cut and patched, in terms of performance characteristics and including visual effect where applicable. The Design/Builder shall comply with requirements, and use materials identical with original materials where feasible and where recognized that satisfactory results can be produced thereby.

6. PREPARATION

- A. Inspection of Concealed Conditions (for construction existing prior to this Contract) if prior to beginning installation or preparation of shop drawings for each unit of work involving exposure of existing concealed construction, the Design/Builder shall remove the minimum of finishes, substrates and other existing construction as necessary to expose existing conditions where work is required behind existing surfaces. The Design/Builder shall verify that work can proceed in accordance with the requirements of the Contract Documents. The Design/Builder shall prepare detailed drawings of any existing conditions which differ substantially from conditions indicated or implied by the Contract Documents and the existing construction visible prior to exposure of concealed conditions. Submit drawings and a cost proposal to the Construction Manager a minimum of fourteen (14) calendar days prior to the scheduled installation of work in that area or the preparation of any required submittals relating to the area in question.

- B. Inspection of Concealed Conditions (for Work installed under this Contract) – In the event work is required behind existing surfaces previously installed under this Contract, the Design/Builder shall remove the minimum of finishes, substrates and other existing construction as necessary to expose existing conditions where work is required behind existing surfaces. Inspect and assess all conditions affecting the continued performance of the Work, and immediately report any circumstances which could have an adverse effect on the performance of the Work to the Construction Manager.
- B. Temporary Support - The Design/Builder shall provide shoring and protection and/or temporary support for work to be cut, to prevent failure. Do not endanger other work.
- C. Protection - The Design/Builder shall provide protection of other work during cutting and patching, to prevent damage and provide protection of the Work from adverse weather conditions. The Design/Builder shall not cut or alter work of another contractor without written consent of the Construction Manager.

7. CUTTING AND PATCHING

- A. The Design/Builder shall employ skilled tradesmen to perform all cutting, coring and patching and who have experience working with the materials involved. Except as otherwise indicated or approved by the Construction Manager, the Design/Builder shall proceed with cutting and patching at earliest feasible time in each instance, and complete work without delay.
- B. The Design/Builder shall cut work by methods least likely to damage work to be retained and work adjoining. Employ the original installing subcontractor to perform cutting and patching for weather-exposed or moisture-resistant elements, and for exterior or interior surfaces exposed to view.
- C. In general, where physical cutting action is required, the Design/Builder shall cut work with sawing and grinding tools, not with hammering and chopping tools. Make cuttings to neat, straight lines and only to the size required to accommodate the construction to be installed. Core drill openings through finished concrete work.
- D. The Design/Builder shall patch with seams which are durable and as invisible as possible. Comply with specified tolerances for the work. Where feasible, inspect and test patched areas to demonstrate integrity of work.
- E. The Design/Builder shall restore exposed finishes of patched areas and extend finish restoration onto retained work adjoining, in a manner which will eliminate evidence of patching and refinishing. Where a patch occurs in a smooth painted surface, the Design/Builder shall extend the final paint coat over entire unbroken surface containing patch, after patched area has received prime and base coats.
- F. Wherever existing concrete floors are required to be patched or leveled, and where slabs are chopped out to provide for installation of new concrete floors, and where existing concrete is to be extended, the Design/Builder shall apply concrete bonding agent before placing new concrete. Apply such bonding agent in accordance with the manufacturer's specifications.

END OF SECTION # 01045

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION

SECTION NO. 01150

MEASUREMENT AND PAYMENT-ALLOWANCE

PART 1

1.01 GENERAL

- A. This section identifies each Measurement of Payment for items in the Bid Sheet and describes the methods by which evaluation of work complete will be based. This section should be used to assist in the development of the Construction Schedule, the Schedule of Values and in determination for completion of work the following measurement criteria shall be used.

1.02 NON-PAYMENTS

- A. No separate payment shall be made for excavation, disposal of rubbish and debris, pipe bedding, backfill, dewatering of trench, repair of damaged properties. All testing required for the execution of the work shall be done as part of the price for the item involved.
- B. No separate payment shall be made for any traffic control, work area protection, recording, safety measures, set-up of equipment and set-up of staging area except as indicated below. Payment for these items shall be part of the unit price bid for each particular item of work.
- C. The contractor shall allow the County a minimum of 15 days after the issue of a RFI. No payment shall be made for "down time".

PART 2 - MEASUREMENT AND PAYMENT

2.01 SCOPE

- A. The Bid lists each item of Work for which payment will be made. No payment will be made for any items other than those listed in the Bid.
- B. Required items of work and incidentals necessary for the satisfactory completion of the Work which are not specifically listed in the Bid, and which are not specified in this section to be measured or to be included in one of the items listed in the Bid, shall be considered as incidental to the Work. All costs thereof, including Contractor's overhead costs and profit, shall be considered as included in the lump sum or unit prices bid for the various Bid items. The Contractor shall prepare his Bid accordingly.
- C. Work includes furnishing all plant, labor, equipment, tools, and materials, which are not furnished by the County, and performing all operations required to complete the Work satisfactorily, in place, as indicated on the Drawings, specified or directed by the Construction Manager.

2.02 DESCRIPTIONS

- A. Measurement of an item of Work will be by percent completion of activities and milestones as indicated on the schedule of value.
- B. Unless otherwise stated in individual sections of the Specifications or in the Bid Schedule, no separate payment will be made for any item of Work, materials, parts,

equipment, supplies or related items required to perform and complete the Work. The costs for all such items required shall be included in the Contract Price bid of which it is a part.

- C. Payment will be made at the Contract Price per unit indicated in the Bid Schedule, with the total price of the Contract being equal to the Total Bid and then summing the extended prices to reflect actual work. Such price and payment shall constitute full compensation to the Contractor for furnishing all plant, labor, equipment, tools, and materials not furnished by the County, and for performing all operations required to provide to the County the entire Project, complete in place, as specified and as indicated on the Drawings.
- D. "Products" shall mean materials or equipment permanently incorporated into the work.
- E. "Provide" shall mean furnish and install.

2.03 CLEARING AND GRUBBING

- A. Payment for Clearing and Grubbing shall be made for the area cleared and grubbed within the permanent and construction easements limits only, where the area, in the opinion of the Construction Manager is considered thickly dense with trees and vegetation. The area cleared outside the limits shall not be included unless directed by the Construction Manager.
- B. Clearing and Grubbing shall include removal and disposal off site materials which include all trees, stumps, roots, growth, debris, stumps and other objectionable matter.
- C. The cost of moving and reestablishing landscape features within the right-of-way and easements shall be included in the unit prices bid for sewer easement clearing.
- D. No separate payment will be made for clearing in grass area and in non-established vegetation area within the right-of-way where water line is to be laid. Cost of such work should be included in the unit price bid for sewer easement clearing.

2.04 TRENCH EXCAVATION AND BACKFILL

- A. No separate payment or additional payment shall be made for any special unique method, means, techniques or equipment necessary for the Contractor's compliance with these Specifications, regulatory requirements, permits, laws or regulations which govern the project. All costs shall be included in the unit price bid for pipeline.
- B. No separate payment shall be made for trench excavation. All costs shall be included in the unit price bid for pipeline.

2.04.1 SHEETING, BRACING, AND SHORING

- A. No separate payment will be made for providing sheeting, bracing, and timbering as specified, shown on the Drawings or necessary due to the Contractor's means of construction. All costs for sheeting, bracing, and shoring shall be included in the unit price bid for pipeline.
- B. No payment will be made for sheeting removed or for sheeting left in place for the Contractor's convenience.

2.04.2 BEDDING AND HAUNCHING

- A. No separate payment will be made for material used to provide specified bedding and haunching. The cost of all bedding and haunching materials shall be included in the unit price bid for the item to which it relates except for trench stabilization.
- B. No additional payment will be made for improved bedding required to compensate for over excavation of the trench.
- C. Additional bedding required to compensate for removed unsuitable materials, as directed by the Construction Manager will be paid through the unit price bid for Trench Stabilization.

2.04.3 INITIAL BACKFILL

- A. No separate payment shall be made for initial backfill.
- B. No separate payment shall be made for drying out the initial backfill material in order to meet the compaction requirements.
- C. No separate payment shall be made for the adding of moisture to the initial backfill materials in order to meet compaction requirements.
- D. No separate payment shall be made for providing select material if the unsuitable material cannot meet the compaction requirements.

2.04.5 FINAL BACKFILL

- A. No additional payment will be made for additional material.
- B. No additional payment will be made for select backfill material. Payment for select material shall be included in the unit price bid for pipeline.
- C. No additional payment will be made for disposal off site of surplus excavated materials.
- D. No additional payment will be made for placing temporary crusher run backfill or granular material on top portion of trench on paved areas. Such cost shall be included for constructing the pipeline.

2.05 ROCK EXCAVATION IN PIPE TRENCHES

- A. Rock excavation shall be paid for as an extra addition to payment for pipe provided for elsewhere in the specifications. Payment will be made for the measured quantity of rock excavated, at the sum of the unit prices bid for Rock Excavation.
- B. The maximum allowable volume of rock excavated for payment shall be based on a trench width equal to the outside diameter of the pipe barrel plus eighteen (18) inches, but not less than 36-inches, and depth of rock on the pipe centerline, from the top of the rock to the bottom of the rock or the specified bottom of trench, whichever has the higher elevation.
- C. The County must be given reasonable notice to measure all rock. Payment shall be made based on a quantity certified correct by the County based on a joint measurement conducted by and between the Contractor and the County.
- D. No allowance shall be made for excavation to the extra width for construction of manholes or other appurtenances, for excavation to sloping sides, or for excavations made necessary by the physical limitations of the Contractor's equipment. Cost of such additional rock excavation shall be included in the unit price bid for the item to which it pertains.

- E. If rock is encountered that requires removal by blasting, the County will require the Contractor to employ a Blasting Construction Manager to supervise the Work. The Blasting Construction Manager must be approved by the Construction Manager. It will be the Blasting Construction Manager's duty to advise the blaster of hole spacing and loading and to make seismic and concussion measurements where deemed necessary.
- F. No extra payment will be made for blasting. All costs of equipment, labor and materials required for blasting shall be included in the unit price bid for Rock Excavation.
- G. Payment for blast monitoring shall be made under the Task Allowances provided for Blast Monitoring. A fee must be agreed upon by the County prior to the Contractor employing an independent, qualified specialty subcontractor to monitor the blasting. If the Contractor employs the specialty subcontractor prior to the County's approval of the fee, all such costs are subject to non-reimbursement.

2.06 OPEN CUT INSTALLATION WITH STEEL CASING

- A. Payment for installing steel casing in an open cut trench shall be made at the unit price bid for Open Cut Installation with Steel Casing, and shall include: labor, equipment, casing, supports, grout and accessories for installing casing and carrier pipe per details, and all other related work necessary for the completion of the work.
- B. No additional payment shall be made for excavation, dewatering, shoring and backfilling.
- C. Payment for carrier pipe shall be included in the unit price bid for pipeline.

2.07 MANHOLES REPLACEMENT

- A. Manholes will be counted in place and the depth measured as the vertical distance between the manhole invert and the top of the cover frame as shown on the manhole detail on the Contract Drawings. No extra payment will be made for manholes installed higher than called for on the Contract Drawings unless the change has been approved by the construction manager prior to installation. Unit process bid shall include bypass pumping, connections to gravity sewers, inverts, installation of gaskets, steps, pipe collars, testing, etc.
- B. TIE-IN TO MANHOLE
 - a. The unit price for Tie-in to Manhole shall include excavation, sheeting and shoring, dewatering, diverting of flow, coring of existing manhole, link seal, grouting, rebuild invert, backfilling, related items and the furnishing of all labor, material, equipment and tools to complete the work.
- C. REBUILD EXISTING PRECAST CONCRETE MANHOLE
 - a. The Engineer shall order the Contractor to rebuild an existing precast concrete manhole if in his opinion, the existing manhole is deteriorated, structurally unsound, needs reconfiguration, and other valid reasons.
 - b. Payment for rebuilding existing manhole shall be measured based on vertical feet of manhole rebuilt which shall include removal of existing manhole, disposal, excavation dewatering, sheeting and shoring, ceasing and diverting of flow, installation of new concrete manhole base, riser and cone sections, bedding, coring, connection to existing pipe, build invert, brick work, grouting, steps, backfilling, compaction, all related items and the furnishing of all labor, material,

equipment, and tools necessary to complete the work as shown on the Drawings, specified or as directed by the Engineer.

2.10 ASPHALT PAVEMENT WORK

- A. Payment for removing and replacing pavements will be made as a separate item based on the measured quantity at the unit price bid for pavement type. The quantity shall be defined by the limits indicated in the Standard Details.
- B. The unit price for Removing and Replacing Concrete Pavement shall include cutting, removing and disposing existing pavement and replacing and compaction of base, subbase, concrete and all related items, as shown on the Drawings, specified or as directed by the Construction Manager.
- C. The unit price for Removing and Replacing Asphalt Pavement shall include cutting, removing and disposing existing pavement and replacing and compaction of base, subbase, asphalt, concrete and all related items, as shown on the Drawings, specified or as directed by the Construction Manager. This applies to areas where standard utility cut replacement is not required.
- D. The unit price for FC Standard Utility Cut Replacement shall include cutting, removing and disposing existing pavement, compaction of subbase, concrete base, asphalt courses and all related items, as shown on the Drawings, specified or as directed by the Construction Manager.
- E. The unit price for Type "F" Asphalt Topping shall include the overlaying of approximately 1- inch of Type "F" asphalt on existing pavement. Areas within utility trenches which require standard utility cut replacement shall be paid separately under the FC Standard Utility Cut Replacement.
- F. The unit price for Milling of Existing Asphalt Pavement shall include milling up to 2- inches thick of existing pavement and disposing of waste materials, and all related items.
- G. Payment for soil, asphalt and concrete testing shall be made from the Task Allowances for Soil, Asphalt and Concrete Testing. No payment shall be made for tests which fail to verify required results.
- H. No additional payment will be made for removing and replacing damaged adjacent pavement.

2.11 PAVEMENT MARKING AND STRIPING

- A. Payment for pavement marking and striping will be included in the unit price bid for Asphalt Pavement work.

2.13 GRASSING

- A. Payment for temporary grassing shall be included in site restoration and landscaping/re-seeding. Temporary grassing shall be applied to all disturbed area to be left exposed for a period greater than 14 days.
- B. The unit price for temporary grassing shall include spreading of fast growing seed, mulching, watering and all related items. No additional payment will be made for maintenance and repairing damaged work.

- C. Payment for permanent grassing shall be included in site restoration and landscaping/re-seeding. Permanent grassing shall be applied to disturbed area where final grading and dress-up have been completed.
- D. The unit price for permanent grassing shall include fine grading of area disturbed, raking, pulverizing soil, removal of rocks, coarse soil and other objectionable materials, fertilizing, seeding, mulching, watering and all related items. No additional payment will be made for maintenance and repairing damaged work.
- E. In no case shall one area be paid more than once for temporary and permanent grassing. Where an area is temporarily grassed, which is left permanently, as directed by the Construction Manager, shall only be paid once for temporary grassing. No additional payment shall be made for permanent grassing in this case.

2.14 SODDING

- A. Sodding shall be planted as directed by the Construction Manager. Payment for sodding will be included in site restoration and landscaping/re-seeding based on measured quantity installed for any type. Unit price shall include preparation of surface to be planted as described in permanent grassing, installation of sod, rolling, compacting, watering, all related items including the furnishing of all labor, materials, equipment and tools necessary to complete the work.
- B. No additional payment will be made for maintenance and repairing damaged work.

2.15 EROSION AND SEDIMENT CONTROL

- A. The cost for silt fencing for erosion control purposes, including all materials, labor, equipment and tools, as shown on the Drawings, specified or directed by the Construction Manager shall be included in the unit price bid for Erosion and Sediment Control.
- B. No additional payment will be made for the cost of maintenance and repair work for damaged work.
- C. No additional payment will be made for the cost of removal and disposal of used materials. Removal of silt fence shall be done only when construction area has been completely stabilized with permanent vegetation and all roadways and driveways have been paved and/or as directed by the Construction Manager.
- D. Payment for installing haybales shall be included in the unit price bid for Erosion and Sediment Control based on actual quantity installed. Installed haybales that do not serve its primary purpose to control erosion will not be paid, unless shown on the Drawings or specified or directed by the Construction Manager.
- E. The unit price for staked haybales shall include installation, maintenance, replacement of damaged unit, disposal and the furnishing of all labor, materials, equipment and tools necessary to complete the work.

2.16 CONSTRUCTION EXIT/ENTRANCE

- A. The unit price for installing construction exit/entrance shall include geotextile underliner, stone (NRA R-2 1.5 to 3.5 inches stone), maintenance, repair, disposal and furnishing of all labor, materials, equipment and tools necessary to complete the work.

- B. If the action of the vehicle traveling over the gravel pad does not sufficiently remove the mud, the tires should be washed prior to entrance onto public right-of-way. No additional payment will be made for the cost of washing of tires.
- C. The construction pad may require periodic top dressing with 1.5 to 3.5 stone, as condition demand as part of maintenance. Such cost should be included in the unit price bid for Construction Exit/Entrance.
- D. No. 57 stone is not an acceptable material for construction pad. No additional payment will be made should this material is used for this purpose.

2.17 RIPRAP

- A. The cost of all riprap, including filter fabric, shown on the Drawings, specified or directed by the Construction Manager shall be included in the unit price bid for site restoration and landscaping/re-seeding. Quantities shall be measure and paid for in square yards.
- B. When crossing a stream or ditch, the quantity eligible for payment shall be limited to 10 feet upstream and 10 feet downstream from any disturbed area. Extend filter fabric and riprap from 5 feet from top of bank, across stream bed to 5 feet past the top of the bank. Any other areas at creeks or ditches disturbed by the Contractor, which requires riprap, shall be rip rapped at no additional cost to the County.

2.18 REPLACE TOP SOIL

- A. During clearing of site, lawn sod shall be removed by cutting into maximum size which can be handled without tearing, stripping sod and underlying topsoil, and stockpiling for use in restoring the surface area. The cost of this work will not be made as a separate item but should be included in the unit price bid for site restoration and landscaping/re-seeding.
- B. Payment for top soil shall be made only as directed by the Construction Manager where in his opinion, the existing surface soil is not viable for grass and vegetative growth. The unit price shall include the removal and disposal of exiting surface soil, importing acceptable top soil, spreading, raking, fine grading and the furnishing of all labor, materials, equipment and tools necessary to complete the work.

2.19 GABION

- A. Payment for gabion shall be included in the unit price bid for site restoration and landscaping/re-seeding, based on quantity installed as shown on the Drawings, as specified or directed by the Construction Manager. The unit price shall include the furnishing of stones, reinforcing basket, stakes, excavation, grading, compaction, and all other labor, materials, equipment and tools necessary to complete the work.

2.20 GEOTEXTILE MATTING

- A. Geotextile matting or soil stabilization mat are used to establish permanent vegetation on steep slopes, channels, or shorelines.
- B. The cost of all materials, labor, equipment and tools to install matting required to established permanent vegetation as shown on the Drawings, specified or directed by the Construction Manager, shall be included in the unit price bid for site restoration and landscaping/re-seeding.

2.21 DIRT BAG

- A. Payment for dirt bag shall be included in the unit price bid for site restoration and landscaping/re-seeding based on quantity installed for the purpose of controlling silt during dewatering operation. The unit price shall include the furnishing of non-woven bag, gravel bed, straps, and all other labor, materials, equipment and tools necessary for a complete work.
- B. The dirt bag is considered full and should be removed from the site when it is impractical for the bag to filter the sediment out at a reasonable flow rate and should be replaced with a new dirtbag.
- C. No additional payment will be made for cleaning, maintenance and disposal of dirtbag.

2.22 TREE PROTECTION

- A. Payment for tree protection fence shall be included in the unit price bid for site restoration and landscaping/re-seeding based on quantity installed per linear foot. No additional payment will be made for tree protection fence that has been damaged and has to be reestablished due to Contractor's negligence.

2.23 TRENCH STABILIZATION

- A. Where the subgrade is, by nature, too soft and mucky, in the opinion of the Construction Manager, for proper installation of pipe, the Construction Manager may order the Contractor to undercut the ditch and backfill with granular material (crushed stone, #57). The crushed stone shall be brought to grade and compacted. When the unsuitable nature of in-place material arises out of wet trench conditions, granular material will be authorized only where alternative techniques (including dewatering methods) are impractical as determined by the Construction Manager.
- B. Measurement for payment of Trench Stabilization (crushed stone, #57) will not be made where such material is a part of a required pipe foundation bedding or where such material is used by the Contractor to increase production or utilize a lesser strength pipe when permitted by an improved pipe foundation. Such additional use of granular material in bedding pipe or for other purposes is considered an incidental cost of constructing pipeline and no separate payment will be made therefore.
- C. When use of granular material is authorized, its volume in cubic yards will be computed by multiplying (1) the horizontal length of the granular material construction along the pipeline centerline by (2) the authorized depth of granular material measured at the side of the pipe by (3) the narrowest maximum trench width authorized in the specifications and drawings.
- D. If during excavation, the subgrade in-place material under roadway or other paved areas is found unsuitable, in the opinion of the Construction Manager for proper backfilling of trench and installation of pavement, the Construction Manager may order the Contractor to remove such material and replace it with trench stabilization material such as suitable earth material (borrow), crusher run or M-10 sand. Where trench stabilization is provided, the trench stabilization material shall be compacted to the requirement of the specifications. However if the excavated material is found suitable but becomes unsuitable later due to improper handling and stockpiling by the Contractor, the Contractor shall be responsible for providing suitable backfill material acceptable to the Construction Manager.
- E. Payment for Trench Stabilization shall be full compensation for removing and disposing the unsuitable material, furnishing trench stabilization material, over-excavation of

trench, dewatering, compaction and other related work. Trench Stabilization materials will be measured similar to computing granular material described in item C above.

- F. Backfilling the top portion of trench on paved areas temporarily with crusher run or granular material to make the road passable or for other purposes is considered as an incidental cost of constructing pipeline, and shall be the responsibility of the Contractor. No separate payment will be made for this work.
- A. No additional payment will be made for disposing surplus material offsite.

2.24 TASK ALLOWANCES:

- A. All Task Allowances shall be determined and approved by the Fulton County Project Manager.
- B. General
- C. The Contractor shall include in the Total Bid all allowances stated in the Contract Documents. The allowances shall cover the net cost of the services provided by a firm selected by the County. The Contractor's handling costs, labor, overhead, profit and other expenses contemplated for the original allowance shall be included in the items to which they pertain and not in allowances.
- D. No payment will be made for nonproductive time on the part of testing personnel due to the Contractor's failure to properly coordinate testing activities with the work schedule or the Contractor's problems with maintaining equipment in good working condition.
- E. No payment shall be provided for services, which fail to verify required results. The Contractor shall be responsible for payment of failed tests.

1. Documentation

- a. Submit copies of the invoices with each periodic payment request from the firm providing the services.
- b. Clearly identify project information, date and type of service.
- c. Submit invoice back up for all direct expenses.
- d. Submit reports documenting the results of services provided which verify compliance with the contract requirements.
- e. Schedule of Task Allowances

The following items may qualify for Allowance allocation to be utilized only at the discretion of the Construction Manager:

2. Soil, Asphalt and Concrete Testing, Material Testing

- a. Services of a geotechnical Construction Managing firm and testing laboratory to verify soils conditions including trench excavation and backfill, pile bearing resistance, asphalt coring and density tests, testing of concrete cylinders and other similar issues as directed as directed by the Construction Manager.

3. Utility Conflict Resolution

- a. To resolve any unforeseen utility conflicts including relocating and/or replacement.

- b. Payment for conflicts with existing utilities shall be made only when the pipeline can not be routed to avoid the conflict.
- c. No payment will be made for any delay or extra cost encountered by the Contractor due to protection, avoidance, or relocation of existing utilities, main or services or changing the horizontal or vertical alignment of the pipeline.

4. Materials Testing

- a. Services of a testing laboratory for the Testing of materials to be furnished on the project.

END OF SECTION # 01150

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 01200
PROJECT MEETINGS

1.01 GENERAL

- A. The Construction Manager will determine the agenda for and chair the meetings described below and also shall prescribe the format for the documentation of the meetings to be produced by the Design/Builder.
- B. Periodic progress meetings and specially called progress meetings throughout the progress of the Work shall be held at times to be determined by the Construction Manager.
- C. The Construction Manager shall schedule and administer project meetings throughout progress of Work where specified or required
- D. The Design/Builder shall have the following specific responsibilities:
 - 1. Distribute Construction Manager's agenda for meetings
 - 2. Distribute written notice of each meeting a minimum of seven days in advance of meeting date to all parties involved
 - 3. Make physical arrangements for meetings
 - 4. Record minutes, in the format to be provided by the Construction Manager, to include significant proceedings, decisions and action items
 - 5. Provide and record a sign-in sheet for all attendees
 - 6. Reproduce and submit word-processed minutes, within two working days after each meeting, to the Construction Manager for approval before further distribution. After approval, distribute copies as follows:
 - a. to all participants in the meeting
 - b. to all parties affected by decisions made at meeting
 - c. to all other parties as may be designated by the County or Construction Manager

7. Video-tape all meetings. The original of the video tape is to be submitted to the Construction Manager along with the draft of the meeting minutes for approval. A copy of the video-tapes is to be kept on-site at the Design/Builder's job site office.

- C. Representatives of Design/Builder, subcontractors and suppliers attending the meetings shall be qualified and authorized to act on behalf of the entity each represents.
- D. Related Requirements:
 - 1. Section 01010:Summary of Work
 - 2. Section 01310:Construction Schedules

3. Section 01340:Shop drawings, Product Data, and Samples

1.02 PROJECT INITIATION MEETING

- A. The Construction Manager will schedule the Project Initiation Meeting within 10 days of issuance of the Notice to Proceed.
- B. The location of the meeting will be designated by the Construction Manager.
- C. The following parties shall attend the meeting:
1. Owner's Representative
 2. Program Manager
 3. Design/Builder's Project Manager
 4. Design/Builder's Lead Engineer
 5. Major Design Subcontractors, as appropriate
 6. Others as appropriate
- D. Suggested agenda:
1. Distribution and discussion of Projected Schedules
 - a. Design.
 - b. Construction.
 2. Design Progress Meetings
 3. Project Coordination
 4. Procedures and processing of:
 - a. Design submittals.
 - b. Field decisions.
 - c. Proposal requests.
 - d. Change Orders.
 - e. Applications for Payment.
 5. Procedures for maintaining Record Documents
 6. Safety and first aid procedures
- E. The Construction Manager will schedule meetings to monitor and discuss the progress of the design based on the schedule provided by the Design/Builder. At a minimum, progress meetings shall be held every two weeks.

1.03 PRECONSTRUCTION MEETING

- A. The Construction Manager will schedule this meeting upon submittal of the completed design by the Design/Builder. The completed design is defined as a fully permitted set of drawings and specifications.

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- B. The location of the meeting will be designated by the Construction Manager.
- C. The following parties shall attend the meeting:
1. Owner's Representative
 2. Program Manager
 3. Resident Project Representative
 4. Design/Builder's Superintendent
 5. Major Subcontractors
 6. Major Suppliers
 7. Others as Appropriate
- D. Suggested Agenda:
1. Distribution and discussion of:
 - a. List of major subcontractors and suppliers.
 - b. Projected Construction Schedule.
 2. Critical work sequencing.
 3. Major equipment deliveries and priorities.
 4. Project Coordination.
 - a. Designation of responsible personnel.
 5. Procedures and processing of:
 - a. Field decisions.
 - b. Proposal requests.
 - c. Submittals.
 - d. Change Orders.
 - e. Applications for Payment.
 6. Adequacy of distribution of Contract Documents.
 7. Procedures for maintaining Record Documents.
 8. Use of premises:
 - a. Office work and storage areas.
 - b. Owner's requirements.
 9. Construction facilities, controls and construction aids.
 10. Temporary utilities.
 11. Safety and first aid procedures.
 12. Security procedures.

1.03 CONSTRUCTION PROGRESS MEETINGS

- A. Scheduling: Meetings shall be conducted at least bi-weekly throughout the construction phase of the Work.
- B. Location of the Meetings: Project field office of Design/Builder or other location designated by Construction Manager.
- C. Attendance:
 - 1. Owner/user group representative(s), as appropriate
 - 2. Program Manager's representative (at its option)
 - 3. Construction Manager's representative
 - 4. Design/Builder's Project Manager, Superintendent, and other representative(s) as appropriate
 - 5. Subcontractors and suppliers as appropriate to the agenda
 - 6. Others as appropriate
- D. Suggested Minimum Agenda:
 - 1. Review and approval of minutes of previous meeting
 - 2. Actual vs. scheduled progress since previous meeting
 - 3. Planned construction activities for the next four weeks
 - 4. Problems with and revisions to construction schedule
 - 5. Review of off-site fabrication and delivery schedules
 - 6. Corrective measures and procedures to regain projected schedule
 - 7. Submittal schedules and expediting
 - 8. Construction Document clarifications
 - 9. Field observations, problems, conflicts
 - 10. Quality control
 - 11. Actual and potential changes and their impacts
 - 12. Review proposed changes for:
 - a. Effect on Construction Schedule and on completion date.
 - b. Effect on other components of the Project.
 - 13. Safety issues

1.04 PRE-INSTALLATION MEETINGS

- A. Scheduling: Schedule pre-installation meetings for installation of various aspects of the Work prior to the start of installation, or as otherwise specified in the Project Manual. Do not schedule pre-installation meetings until required submittals have been approved.
- B. Location: At jobsite.
- C. Meeting Requirements:
 - 1. Prior to installation of work, conduct pre-installation meeting at project site with Design/Builder's superintendent and foreman, primary materials installer, installer of each component of associated work,

representative(s) of materials manufacturer(s), inspection and testing agency representative (if any), installers of other work requiring coordination, Construction Manager, and Owner's representative for the purpose of reviewing job mock-up (if any), job conditions, project requirements and procedures to be followed in performing work.

2. At pre-installation meeting, examine areas and conditions under which work is to be performed. Report in writing of conditions detrimental to proper and timely completion of work. Do not proceed with work until unsatisfactory conditions have been corrected. Commencement of work shall constitute acceptance of substrate conditions.
3. At pre-installation meeting, the manufacturer's authorized representative shall inspect storage of job site materials, establish scheduling of initial and final installation of products, and establish the method of preparing written progress reports to Design/Builder (with copy to Construction Manager) of job conditions and installation.
4. At pre-installation meeting, review manufacturer's product data publications and other published instructions for material installation compliance including shop drawings. Shop drawings and submittals shall be reviewed and approved prior to pre-installation meetings. Design/Builder shall provide a set of approved shop drawings and submittals for meeting use.
5. Where manufacturer's representative offers recommendations on material use, such recommendations shall be submitted in writing and substantiated by dated, printed, published product data or material use statement which is complete, definite, and clear, and signed by authorized company official.
6. Meeting Report: Submit copy of pre-installation job meeting report. Include copy of manufacturer's inspection report, manufacturer's recommendations, and any statement of non-compliance as applicable.
7. Pre-Installation meetings shall include, but not be exclusive of the following portions of the Work:
 - a. Commencement of construction
 - b. Open cut installation

1.05 INSPECTION TOURS

- A. Formal inspection tours shall be made of the job progress for the Owner and any other officials as the occasion warrants and as scheduled by the Construction Manager.
- B. If requested by the Construction Manager, the Design/Builder shall be prepared to show and explain work completed and in progress throughout the Project to the inspection parties.

END OF SECTION # 01200

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 01310
SCHEDULING OF THE WORK

1.0 INTRODUCTION

This Section describes the Construction Scheduling and progress reporting requirements of the Contract. The primary objectives of the requirements are:

1. To insure adequate planning and execution of the work by the Contractor ;
2. To assist the County and Construction Manager in evaluating the progress of the work;
3. To provide for optimum coordination by the Contractor of its sub-contractors, trades, and suppliers, and of its Work with the work or services provided by the County or any separate contractors; and
4. To permit the timely prediction or detection of events or occurrences which may affect the timely prosecution of the Work?
5. To provide for a basis of progress of work for invoicing and payment to Contractor.

Contract Term

The Contract will have a Term of 200. This term is the maximum time that the Contract is in effect and constitutes the maximum period of time during which the Work can be accomplished and completed without change order. The Contractor shall prepare their detailed Construction Schedule to be less than or equal to the term of the Contract.

2.0 GENERAL SCHEDULING REQUIREMENTS

- A. The work of this contract shall be planned, scheduled, executed, and reported using the critical path method (CPM). The Contractor shall use one of the following software programs to develop its detailed Construction Schedule:
 1. Microsoft Project, latest version
 2. SureTrak Project Manager, latest version
 3. Primavera Project Planner
- B. The detailed Construction Schedule shall represent the Contractor's commitment and intended plan for completion of the Work in compliance with the Contract completion date and interim milestone dates specified. The detailed Construction Schedule shall take into account all foreseeable activities to be accomplished by any separate Contractors or the County, and interface dates with utility companies, the County's operations, and others. The detailed Construction Schedule shall anticipate all necessary manpower and resources to complete the Work within the dates set forth.
- C. Once approved by the Construction Manager, the detailed Construction Schedule will become the Baseline Schedule and Schedule of Record for coordinating the Work, scheduling the Work, monitoring the Work, reviewing the progress payment requests, evaluating time extension requests, and all other objectives listed above.

- D. The Contractor is responsible for determining the sequence of activities, the time estimates of the detailed construction activities and the means, methods, techniques and procedures to be employed. The detailed Construction Schedule shall represent the Contractor's best judgment of how it will prosecute the Work in compliance with the Contract requirements. The Contractor shall ensure that Detailed Construction Schedule is current and accurate and is properly and timely monitored, updated and revised as Project conditions and the Contract Documents may require.
- E. When there are separate contractors working concurrently on the Project whose work must interface or be coordinated with the Work of the Contractor, the Contractor shall coordinate its activities with the activities of the separate contractors, and the Detailed Construction Schedule shall take into account and reflect such work by others.
- F. The Contractor shall be solely responsible for expediting the delivery of all materials and equipment to be furnished by it so that the progress of construction shall be maintained according to the currently approved Construction Schedule for the Work. The Contractor shall notify the Construction Manager in writing, and in a timely and reasonable manner, whenever the Contractor determines or anticipates that the delivery date of any material or equipment to be furnished by the Contractor will be later than the delivery date indicated by the currently approved Construction Schedule, or required consistent with the completion requirements of this Contract, subject to schedule updates as herein provided.

3.0 DETAILED CONSTRUCTION SCHEDULE

- A. Initial Schedule was submitted with the successful Contractor's bid in response to the ITB. Within 14 days after the Notice to Proceed, the Contractor shall submit a detailed Construction Schedule according to the requirements. The Construction Manager will review the Construction Schedule and will return the reviewed copy within the time-period specified for submittals. If required, the Contractor shall resubmit schedule to the Construction Manager making any required revisions within ten (10) days following the return date, and then again similarly for all such partial approvals and the final approval.
- B. The detailed Construction Schedule shall consist of a time-scaled, detailed network graphic representation of all activities that are part of the Contractor's construction plan and an accompanying listing of activity's dependencies and interrelationships. The detailed Construction Schedule submission shall include, but not be limited to, the following information:
 - 1. Project name
 - 2. The Work shall be divided into logical and identifiable subdivisions called activities. All activities will be assigned to a Milestone. The total cost of the all the work represented by all the Milestones shall equal the Total Bid Amount (section 00300). Work shall be further subdivided into Activities as defined below.
 - 3. Activities for all aspects of the work, with durations not exceeding fourteen (14) calendar days for all activities for which the Contractor will perform actual construction work. Material procurement, submittals, concrete curing and other similar activities may exceed fourteen (14) calendar days if approved by the Construction Manager. Related activities, each of duration

- of five (5) calendar days or less, may be shown as one activity together, if not on the critical path of timely job completion.
4. The Construction schedule shall indicate the Critical Path for the work. This can be accomplished on the Construction Schedule, on a separate schedule.
 5. Outage schedules for existing utility services, if any, that will be interrupted during the performance of the Work
 6. Acquisition and installation of equipment and materials supplied and/or installed by the County or separate contractors
 7. All start dates, milestones, float and completion dates
 8. An accounting of the number of workdays anticipated to be lost due to weather. This accounting shall be in accordance with allowable days per month provided elsewhere in the Contract Documents.
 9. A tabular report listing all predecessor and successor activities for each activity
 10. A legible time scaled network diagram
 11. A listing of the project calendar, indicating the anticipated days of work performance
 12. A CD-ROM in a form and format acceptable to the Construction Manager, of the detailed Construction Schedule including all required submission information resident in the computer system and containing all of the files associated with the schedule; or a legible spreadsheet report with activity number, description, duration and successor activities.
- C. All Milestones and Activities are to appear on the detailed Construction Schedule shall include, but not be limited to, preliminary construction activities, pre-construction meetings, site work, structure erection, roof close-in, exterior wall systems, paving, major material fabrication and delivery, shop drawings submittals, bi-weekly progress meetings, furniture delivery and installation, equipment delivery and installation, coordination requirements, mock-up installations and inspections, dates of Substantial and Final Completion, Certificate of Occupancy inspection, systems testing and instruction, and special County decision points that impact the Work.
- D. Schedule Reports: Schedule submissions will contain the following minimum information for each activity:
1. Activity number, description and estimated duration
 2. Anticipated start and finish dates
 3. Responsibility for activity
 4. The cost loading values for each activity.
- E. For all major equipment and materials to be fabricated or supplied for the Project, the Detailed Construction Schedule shall show a sequence of activities including:
1. Preparation of shop drawings and sample submissions
 2. A reasonable time for review of shop drawings and samples or such time as specified in the Contract Documents
 3. Shop fabrication, delivery and storage
 4. Erection or installation
 5. Testing of equipment and materials.

- F. The Contractor shall submit, as a part of the data submitted to the Construction Manager, a narrative report indicating the anticipated allocation by the Contractor of the following resources and work shifts for each activity which he proposes to be utilized on the Project:
1. Labor resources;
 2. Equipment resources; and
 3. Whether it proposes the Work to be performed on single, double or triple shifts, and whether it is to be done on a 5, 6 or 7 day work week basis. (see work hours)
- G. The Construction Manager shall have the right to require the Contractor to modify any portion of the Contractor's Detailed Construction Schedule, or Recovery Schedule, including cost loading with the Contractor bearing the expense thereof, which the Construction Manager reasonably determines to be:
1. Impractical;
 2. Based upon erroneous calculations or estimates;
 3. Unreasonable;
 4. Not in compliance with other provisions of the Contract Documents;
 5. Required in order to ensure proper coordination by the Contractor of the Work of its sub-contractors and with the work or services being provided by any separate contractor;
 6. Necessary to avoid undue interference with the County's operations or those of any utility companies or adjoining property owners;
 7. Necessary to ensure completion of the Work by the milestone and completion dates set forth in the Contract Documents;
 8. Required in order for the Contractor to comply with the requirements of this Appendix or any other requirements of the Contract Documents; or
 9. Not in accordance with the Contractor's actual operations.

4.0 BASELINE SCHEDULE

- A. Upon final approval, the detailed Construction Schedule shall be used as a Baseline Schedule. The Baseline Schedule will be change only under the following circumstances after review and approval of the Construction Manager.
1. An approved Change Order to the Work, which constitutes an adjustment to the original scope of work and requires additional time to complete. The baseline schedule will be change to reflect the additional time of the change order.
 2. Unavoidable delays, not the fault of the Contractor, contained in a time-only approved Change Order. The baseline schedule will have the additional time added to the schedule.
 3. A Change Order approved by the County that has an additional time extension.

4. A request by the Contractor for a revision to the Detailed Construction Schedule that does not extend the Acceptance Date beyond the term of the Contract.
- B. It should be noted that delays attributed to the Contractor or failure of the Contractor to make major milestones that require a subsequent recovery schedule does not change the baseline (original) schedule. Recovery schedules, when required, will be used until the project regains the baseline schedule or until the Work is complete, the term of the contract reached or the contract terminated. The baseline schedule remains the baseline unless changed by an approved change order or is revised and equals the term of the contract.

5.0 SCHEDULE OF VALUES

- A. As part of the submission of the detailed Construction Schedule, the Contractor shall submit a breakdown of the expected value of each of the schedule activities for which payment will be requested. Activities shall roll-up into Milestones. . The total cost of all Milestones will be equal to the Total Bid Amount (section 00300). The cost breakdown of the detailed Construction Schedule shall have a direct correlation to the Schedule of Values to be used as the basis for Applications for Payment.
- B. Draw Down Schedule: Upon acceptance, by the County of the Schedule of Values, the Contractor shall prepare and submit to the County a schedule of draw down payments, referred to as Draw Down Schedule, totaling the Total Amount of Bid. This Draw Down Schedule will be used by the County to anticipate the cash flow needed to meet its financial obligations under the Design/Build Contract. Any change in the Schedule of Values, as specified below, will require that the Draw Down Schedule be revised and resubmitted.

6.0 UPDATING OF CONSTRUCTION SCHEDULE—DESIGN AND CONSTRUCTION PROGRESS REPORTS

- A. The Contractor shall submit for the monthly progress report and for all payment requests an update of the Construction Schedule. The Construction Manager will review the Construction Schedule contained in Monthly Progress Report or payment request to determine the Contractor's actual progress. Prepared by the Contractor, said schedule updates shall set forth current and accurate progress data and shall be based upon the Contractor's best judgment. Said schedule updates shall be prepared by the Contractor in consultation with all principal sub-contractor and suppliers.
- B. The updated Schedule shall show the activities, or portions of activities, completed during the reporting period, the actual start and finish dates for these activities, remaining duration and/or estimated completion dates for activities currently in progress, and quantities of material installed during the reporting period. The Construction Manager will produce a computerized update worksheet for the Contractor to complete as a part of this process.
- C. At the monthly progress meeting held in accordance with Appendix 10, a total review of the Project will take place including but not limited to, the following:
 1. Current update of the Detailed Construction Schedule
 2. Anticipated detailed construction activities for the subsequent report period
 3. Critical items pending
 4. Contractor's requested changes to the detailed Construction Schedule. These changes shall be accompanied by a change order to the scope of work and term or a change order to the term only.

- D. The Contractor shall submit a narrative with the progress report which shall include, but not be limited to, a description of problem areas, current and anticipated delaying factors and their impact, explanations of corrective actions taken or planned, any proposed newly planned activities or changes in sequence, and proposed logic for a Recovery Schedule, if required, as further described herein. The report shall also include:
1. A narrative describing actual work accomplished during the reporting period
 2. A list of major construction equipment used on the Project during the reporting period
 3. The total number of men by craft actually engaged in the work during the reporting period, with such total stated separately as to office, supervisory, and field personnel
 4. A manpower and equipment forecast for the succeeding thirty (30) days, stating the total number of men by craft, and separately stating such total as to office, supervisory and field personnel
 5. A list of Contractor supplied materials and equipment, indicating current availability and anticipated job site delivery dates
 6. Anticipated changes or additions to Contractor's supervisory personnel.
- E. As part of the updating process, the Construction Manager will calculate, based upon progress data provided by the Contractor and agreed to by the Construction Manager, the value of Work completed based on the sum of the cost loading amounts for all activities, including activities specifically defined for stored materials, less the amount previously paid. Summation of all values of each activity less the appropriate percent of retainage shall be the maximum amount payable to the Contractor, provided that the Contractor has complied with all requirements of the Contract Documents.

7.0 RECOVERY SCHEDULE

- A. Should the updated detailed Construction Schedule, at any time during the Contractor's performance, show, in the sole opinion of the Construction Manager, that the Contractor is fourteen (14) or more days behind schedule for any milestone or completion date for any location or category of work, the Contractor, at the request of the Construction Manager, shall prepare a Recovery Schedule within 5 days, at no additional cost to the County (unless the County is solely responsible for the event or occurrence which has caused the schedule slippage), explaining and displaying how the Contractor intends to reschedule its Work in order to regain compliance with the detailed Construction Schedule.
- B. The Contractor in preparing a recover schedule shall prepare and submit to the Construction Manager a Recovery Schedule, incorporating the best available information from sub-contractors and others that will permit a return to the Detailed Construction (baseline) Schedule at the earliest possible time. The Contractor shall prepare a Recovery Schedule to the same level of detail as the detailed Construction Schedule. The Recovery Schedule shall be prepared in coordination with other separate contractors on the Project.
- C. Within two (2) days after submission of the Recovery Schedule to the Construction Manager, the Contractor and any of the necessary sub-contractors, suppliers, vendors, manufacturers, etc. shall participate in a conference with the Construction Manager to review and evaluate the Recovery Schedule. Each of the participants will give a written commitment to comply with the Recovery Schedule. Within two (2) days of the conference, the Contractor shall submit the revisions necessitated by the

review for the Construction Manager's review and approval. The Contractor shall use the approved Recovery Schedule as its plan for returning to the detailed Construction Schedule.

- D. The Contractor shall confer continuously with the Construction Manager to assess the effectiveness of the Recovery Schedule. As a result of these conferences, the Construction Manager will direct the Contractor as follows:
1. If the Construction Manager determines the Contractor continues behind schedule, the Construction Manager will direct the Contractor to prepare a Schedule Revision. If the submitted Schedule Revisions will exceed the term of the Contract then the Contractor must also submit and change order request. This change order request will be for the amount of time the project has been delayed. All conditions effecting the requested change order and liquidated damages or construction claims that might arise from the delay or from the change order must be included in the Change Order request.
 2. If the Construction Manager determines the Contractor has successfully complied with provisions of the Recovery Schedule, the Construction Manager will direct the Contractor to return to the use of the approved detailed Construction Schedule.

1.0 SCHEDULE REVISIONS

- A. If the Contractor cannot recover the detailed Construction Schedule via the Recovery Schedule then the Contractor must prepare a Schedule Revision and if this revision extends the detailed Construction Schedule beyond the term of the Contract, a request for a Change Order must be submitted. If the Schedule does not exceed the term of the contract the Construction Manager can approve the revision that now becomes the new Detailed Construction Schedule and Baseline. If the Term of the Contract is exceeded then a Change Order request must be submitted and the schedule revision with reasons for the delay. If the delay is the fault of the Contractor then only the detailed Construction Schedule is revised with the Baseline remaining unchanged. If the delay is County's fault or request or an uncontrollable circumstance then the detailed Construction Schedule and baseline will be revised following approval of the Change Order. Change Orders within Fulton County can take several months. The requests for a Change Order must be well thought out and analyzed to insure that all delays are requested and documented.
- B. Requests for revision will be accompanied by evidence acceptable to the Construction Manager that the Contractor's suppliers, and sub-contractor are in agreement with the proposed revisions. If there are separate contractors on the Project, the approval of the separate contractors shall be obtained to make the proposed schedule revisions. If accepted by the Construction Manager and County, the revisions shall be binding upon the Contractor and all separate contractors on the Project.

9.0 FLOAT TIME

- A. Float or slack time associated with one chain of activities is defined as the amount of time between earliest start date and latest start date or between earliest finish date and latest finish date for such activities, as calculated as part of the currently approved Construction Schedule. Float or slack time shown on the currently approved Construction Schedule is not for exclusive use or benefit of either the

County or the Contractor and is available for use by either of them according to whichever first needs the benefit of the float to facilitate the effective use of available resources and to minimize the impact of Project problems, delays, impact, acceleration or changes in the Work which may arise during performance. The Contractor specifically agrees that the County or Construction Manager in conjunction with their review activities or to resolve Project problems may use float time. The Contractor agrees that there will be no basis for any modification of the milestone or completion dates or an extension of the Contract Time, or a claim for additional compensation as a result of any Project problem, delay, impact, acceleration, or change order which only results in the loss of available float on the currently approved Construction Schedule.

- B Float time shown on any Construction Schedule shall not be used arbitrarily by the Contractor in a manner, which, in the opinion of the Construction Manager, unnecessarily delays separate contractors from proceeding with their work in a way which is detrimental to the interests of the County

END OF SECTION # 01310

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 01410
TESTING LABORATORY SERVICES

1.01 SCOPE

- A. This Section includes testing which the County may require, beyond that testing required of the manufacturer, to determine if materials provided for the Project meet the requirements of these Specifications.
- B. This work also includes all testing required by the County to verify work performed by the Contractor is in accordance with the requirements of these Specifications, i.e., concrete strength and slump testing, soil compaction. Etc.
- C. This work does not include materials testing required in various sections of these Specifications to be performed by the manufacturer, e.g., testing of pipe.
- D. The testing laboratory or laboratories will be selected by the County. The testing laboratory or laboratories will work for the County.

1.02 PAYMENT FOR TESTING SERVICES

- A. The cost of testing services required by the Contract to be provided by the Contractor shall be paid for by the County through their respective TASK ALLOWANCE.
- B. The cost of additional testing services not specifically required in the Specifications, but requested by the County or Construction Manager, shall be paid for by the County through the TASK ALLOWANCE.
- C. The cost of material testing described in various sections of these Specifications or as required in referenced standards to be provided by a material manufacturer, shall be included in the price bid for that item and shall not be paid for by the County.
- D. The cost of retesting any item that fails to meet the requirements of these Specifications and/or false starts due to the Contractor's failure to properly schedule testing technicians shall be paid for by the Contractor. Retesting shall be performed by the testing laboratory working for the County.

1.03 LABORATORY DUTIES

- A. Cooperate with the County, Construction Manager and Contractor.
- B. Provide qualified personnel promptly on notice.
- C. Perform specified inspections, sampling and testing of materials.
 - 1. Comply with specified standards, ASTM, other recognized authorities, and as specified.
 - 2. Ascertain compliance with requirements of the Contract Documents.
- D. Promptly notify the Construction Manager and Contractor of irregularity or deficiency of work which are observed during performance of services.
- E. Promptly submit three copies (two copies to the Construction Manager and one copy to the Contractor) of report of inspections and tests in addition to those additional copies required by the Contractor with the following information included:

-
3. Date issued
 4. Project title and number
 5. Testing laboratory name and address
 6. Name and signature of inspector
 7. Date of inspection or sampling
 8. Record of temperature and weather
 9. Date of test
 10. Identification of product and Specification section
 11. Location of Project
 12. Type of inspection or test
 13. Results of test
 14. Observations regarding compliance with the Contract Documents
- F. Perform additional services as required.
- G. The laboratory is not authorized to release, revoke, alter or enlarge on requirements of the Contract Documents, or approve or accept any portion of the Work.
- 1.04 CONTRACTOR RESPONSIBILITIES
- A. Cooperate with laboratory personnel, provide access to Work and/or manufacturer's requirements.
 - B. Provide to the laboratory, representative samples, in required quantities, of materials to be tested.
 - C. Furnish copies of mill test reports.
 - D. Furnish required labor and facilities to:
 1. Provide access to Work to be tested;
 2. Obtain and handle samples at the site;
 3. Facilitate inspections and tests;
 4. Build or furnish a holding box for concrete cylinders or other samples as required by the laboratory.
 - E. Notify the laboratory sufficiently in advance of operation to allow for the assignment of personnel and schedules of tests.
 - F. Laboratory Tests: Where such inspection and testing are to be conducted by an independent laboratory agency, the sample(s) shall be selected by such laboratory or agency, or the Construction Manager, and shipped to the laboratory by the Contractor at Contractor's expense.
 - G. Copies of all correspondence between the Contractor and testing agencies shall be provided to the Construction Manager.
- 1.05 QUALITY ASSURANCE
-

- A. Testing shall be in accordance with all pertinent codes and regulations and with procedures and requirements of the American Society for Testing and Materials (ASTM).

1.06 PRODUCT HANDLING

- A. Promptly process and distribute all required copies of test reports and related instructions to insure all necessary retesting or replacement of materials with the least possible delay in the progress of the Work.

1.07 FURNISHING MATERIALS

- A. The Contractor shall be responsible for furnishing all materials necessary for testing.

1.08 CODE COMPLIANCE TESTING

- A. Inspections and tests required by codes or ordinances or by a plan approval authority, and made by a legally constituted authority, shall be the responsibility of, and shall be paid for by the Contractor, unless otherwise provided in the Contract Documents.

1.09 CONTRACTOR'S CONVENIENCE TESTING

- A. Inspection or testing performed exclusively for the Contractor's convenience shall be the sole responsibility of the Contractor.

1.10 SCHEDULES FOR TESTING

- A. Establishing Schedule

1. The Contractor shall, by advance discussion with the testing laboratory selected by the County, determine the time required for the laboratory to perform its tests and to issue each of its findings, and make all arrangements for the testing laboratory to be on site to provide the required testing.

2. Provide all required time within the construction schedule.

- B. When changes of construction schedule are necessary during construction, coordinate all such changes of schedule with the testing laboratory as required.

- C. When the testing laboratory is ready to test according to the determined schedule, but is prevented from testing or taking specimens due to incompleteness of the Work, all extra costs for testing attributable to the delay will be back-charged to the Contractor and shall not be borne by the County.

1.11 TAKING SPECIMENS

- A. Unless otherwise provided in the Contract Documents, all specimens and samples for tests will be taken by the testing laboratory or the Construction Manager.

1.12 TRANSPORTING SAMPLES

- A. The Contractor shall be responsible for transporting all samples, except those taken by testing laboratory personnel, to the testing laboratory.

END OF SECTION # 01410

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 01420
INSPECTION OF WORK

1.01 CONSTRUCTION MANAGER'S INSPECTION

- A. The Construction Manager shall have the right of access to and inspection of the work at all times. Materials, equipment and products shall be subject to the Construction Manager's review as specified herein.
- B. The Construction Manager is responsible for general surveillance of the work on behalf of the County. The Construction Manager is not responsible for construction means, methods, sequences, or procedures or for safety precautions and programs in connection with the work. The Construction Manager is not responsible for supervision of the work and shall not give instruction to the Contractor's personnel as to methods of execution of the work. The Construction Manager is not responsible for the Contractor's failure to carry out the work in accordance with the Contract Documents.

1.02 CONTRACTOR'S DUTIES

- A. The Contractor is responsible for all materials, equipment, methods, and procedures in execution of the work.
- B. The Contractor shall correct to the satisfaction of the Construction Manager any work or material found to be defective or of deficient quality. Such corrections shall be made by the Contractor at no additional expense to the County.

1.03 RIGHT OF ENTRY

- A. Representatives of Fulton County System, the Environmental Protection Division of the Georgia Department of Natural Resources, and the U.S. Department of Agriculture, Soil Conservation Services and others as may be identified by the County shall have access to the work wherever it is in preparation or progress. The Contractor shall provide proper facilities for such access and inspection.

END OF SECTION # 01420

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 01440
CONTRACTORS QUALITY CONTROL

PART 1 GENERAL

1.01 REFERENCES

- D. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.
- a. American Society for Testing and Materials (ASTM):

1.02 SUBMITTALS

- A. A plan to identify personnel, procedures, control, instructions, test, records, and forms to be used for quality control.
- B. A report containing record of quality control operations, activities, and tests performed shall be submitted to Construction Manager daily.
- C. Weekly Quality Control Reports.

PART 2 - PRODUCTS (Not Used)

PART 3 EXECUTION

3.01 GENERAL

- A. The Contractor is responsible for quality control and shall establish and maintain an effective quality control system in compliance with the Contract requirements. The quality control system shall consist of plans, procedures, and organization necessary to produce an end product, which complies with the Contract Documents. The system shall cover all construction operations, both onsite and offsite, and shall be keyed to the proposed construction sequence.

3.02 QUALITY CONTROL PLAN

- A. General: The Contractor shall furnish for review by Construction Manager, not later than 15 calendar days after receipt of Notice to Proceed, a Contractor Quality Control (CQC) Plan proposed to monitor quality of the work. The plan shall identify personnel, procedures, control, instructions, test, records, and forms to be used. Construction will be permitted to begin only after acceptance of the CQC Plan.
- B. Content of the CQC Plan:
- a. The CQC plan shall include, as a minimum, the following to cover all construction operations, both onsite and offsite, including work by Contractors, fabricators, suppliers and purchasing agents:
- i. A description of the quality control organization, including a chart showing lines of authority and acknowledgment that the CQC staff shall implement the three phase control system specified hereinafter for all aspects of the work specified. The staff shall include a CQC System Manager who shall report to the Construction Supervisor or someone higher in the

Contractor's organization. Construction Supervisor in this context shall mean the individual with responsibility for the overall management of the project including quality and production.

- ii. The name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a quality control (QC) function.
 - iii. Procedures for scheduling, reviewing, certifying, and managing submittals, including those of Contractors, suppliers and purchasing agents. These procedures shall be in accordance with Section 01300, SUBMITTALS.
 - iv. Submittal register.
 - v. Procedures for correcting nonconforming work.
 - vi. Testing requirements associated with the project.
- C. Approval of Plan: Approval of the Contractor's plan is required prior to the start of construction. Approval is conditional and will be predicted on satisfactory performance during the construction. Construction Manager reserves the right to require the Contractor to make changes in his CQC plan and operations, as necessary, to obtain the quality specified.
- D. Notification of Changes: After approval of the CQC plan, the Contractor shall notify Construction Manager in writing a minimum of 7 calendar days prior to any proposed change. Proposed changes are subject to acceptance by Construction Manager.

3.03 PRE-CONSTRUCTION OR KICKOFF MEETING

- A. During the Preconstruction Conference or prior to approval by Construction Manager of the CQC Plan, the Contractor shall meet with Construction Manager and discuss the Contractor's quality control system. During the meeting, a mutual understanding of the system details shall be developed, including the forms for recording the CQC operations, control activities, testing, administration of the system for both onsite and offsite work and the interrelationship of Contractor's management and control with Construction Manager. There may be occasions when subsequent conferences will be called, by either party, to reconfirm mutual understandings and/or address deficiencies in the CQC system or procedures which may require corrective action by the Contractor.

3.04 SUBMITTAL REVIEW

- A. The CQC organization shall be responsible for certifying that all submittals are in compliance with the Contract Documents.

3.05 CONTROL

- A. Contractor Quality Control is the means by which the Contractor ensures that the construction, to include that of second-tier Contractors and suppliers, complies with the requirements of the Contract Documents. The controls shall be adequate to cover all construction operations, including both onsite and offsite fabrication, and will be keyed to the proposed construction sequence. The controls shall include at least three phases of control to be conducted by the CQC System Manager for all definable features of work, as follows:
- a. Preparatory Phase: The phase shall be performed prior to beginning work on each definable feature of work and shall include:

- i. A review of each paragraph of applicable specifications.
 - ii. A review of the Contract Drawings.
 - iii. A check to assure that all materials and/or equipment have been tested, submitted, and approved.
 - iv. A check to assure that provisions have been made to provide required control inspection and testing.
 - v. Examination of the work area to assure that all required preliminary work has been completed and is in compliance with the Contract Documents.
 - vi. A physical examination of required materials, equipment, and sample work to assure that they are on hand, conform to approve submittal date, and are properly stored.
 - vii. A review of the appropriate activity hazard analysis to assure that both safety and health requirements are met.
 - viii. Discussion of procedures for constructing the work including repetitive activities. Document construction tolerances and workmanship standards for that phase of work.
 - ix. A check to ensure that any required submittals for the work to be performed has been accepted by Construction Manager.
 - x. Construction Manager shall be notified at least 48 hours in advance of beginning any of the required action of the preparatory phase. This phase shall include a meeting conducted by the CQC System Manager and attended by the superintendent, other CQC personnel (as applicable), and the foreman responsible for the definable feature. The results of the preparatory phase actions shall be documented by separate minutes prepared by the CQC System Manager and attached to the next QC report submitted. The Contractor shall instruct applicable workers as to the acceptable level of workmanship required in order to meet Contract Specifications.
- b. Initial Phase: This phase shall be accomplished at the beginning of a definable feature of work. The following shall be accomplished:
- i. A check of preliminary work to ensure that it is in compliance with Contract requirements. Review minutes of the preparatory meeting.
 - ii. Verification of control inspection and testing necessary to document full Contract compliance.
 - iii. Establish level of workmanship and verify that it meets minimum acceptable workmanship standards.
 - iv. Resolve all differences.
 - v. Check health and safety to include compliance with and upgrading of the health and safety plan and activity hazard analysis. Review the activity hazard analysis with each worker.
 - vi. Construction Manager shall be notified at least 48 hours in advance of beginning the initial phase. Separate minutes of this phase shall be

prepared by the CQC System Manager and attached to the next QC report submitted. Exact location of initial phase shall be indicated for future reference and comparison with follow-up phases.

- vii. The initial phase should be repeated for each new crew to work onsite, or anytime acceptable specified quality standards are not being met.
- c. Follow-Up Phase: Daily checks shall be performed to assure continuing compliance with Contract requirements, including control testing, until completion of the particular definable feature of work. The checks shall be made a matter of record in the CQC documentation. Final follow-up checks shall be conducted and all deficiencies corrected prior to the start of additional features of work, which may be affected by the deficient work. The Contractor shall not build upon, conceal, or fail to repair nonconforming work.

3.06 TESTS

- A. Testing Procedure: The Contractor shall perform tests specified or required to verify that control measures are adequate to provide a product which conforms to Contract requirements. Testing includes operation and/or acceptance tests when specified. The Contractor shall procure the services of a testing laboratory. A list of tests to be performed shall be furnished as a part of the CQC plan. The list shall give the test name, frequency, specification paragraph containing the test requirements, the personnel, and laboratory responsible for each type of test, and an estimate of the number of tests required. The Contractor shall perform the following activities and record and provide the following data:
 - a. Verify that testing procedures comply with Contract requirements.
 - b. Verify that facilities and testing equipment are available and comply with testing standards.
 - c. Check test instrument calibration data against certified standards.
 - d. Verify that recording forms and test identification control number system, including all of the test documentation requirements, have been prepared.
 - e. Results of all tests taken, both passing and failing tests, shall be recorded for the date taken. Specification paragraph reference, location where tests were taken, and the sequential control number identifying the test will be given. Actual test reports may be submitted later, if approved by the Contractor, with a reference to the test number and date taken. An information copy of tests performed by an offsite or commercial test facility shall be provided directly to Construction Manager. Failure to submit timely test reports, as stated, may result in non payment for related work performed and disapproval of the test facility for this Contract.
- B. Offsite Testing Laboratories:
 - a. Capability Check: Construction Manager reserves the right to check laboratory equipment in any proposed laboratory for compliance with the standards set forth in the Contract Documents and to check the laboratory technician's testing procedures and techniques. Laboratories utilized for testing solid, concrete, asphalt, and steel shall meet criteria detailed in ASTM D3740 and ASTM E329.

- C. Onsite Testing Laboratories: Construction Manager reserves the right to utilize the Contractor's onsite testing laboratory and equipment to make assurance tests and to check the Contractor's testing procedures, techniques, and test results at the Contractor's sole expense.
- D. Furnishing or Transportation of Samples for Testing: Samples of materials for test verification and acceptance testing by Construction Manager shall be delivered to Construction Manager. Coordination for each specific test, exact delivery location, and dates shall be made Construction Manager.

3.07 DOCUMENTATION

- A. Content of Report: The Contractor shall maintain current records of quality control operations, activities, and tests performed, including the work of Contractors and suppliers. These records shall be in a form approved by Construction Manager and shall include factual evidence that required quality control activities and/or tests have been performed, including but not limited to the following:
 - a. Construction Manager/Contractor area of responsibility.
 - b. Operating plant/equipment with hours worked, idle, or down for repair.
 - c. Work performed each day, giving location, description, and by whom.
 - d. Test and/or control activities performed with results and references to Specifications and QC plan requirements. The QC phase should be identified (Preparatory, Initial, Follow-up). List deficiencies noted along with corrective action.
 - e. Material received with statement as to its acceptability in storage.
 - f. Identify submittals reviewed, with Contract reference, by whom, and action taken.
 - g. Offsite surveillance activities, including actions taken.
 - h. Job safety evaluations stating what was checked, results, and instructions or corrective actions.
 - i. List instructions given/received and conflicts in Drawings and/or Specifications.
 - j. Contractor's verification statement. These records shall cover both conforming and deficient features and shall include a statement that equipment and materials incorporated in a work and workmanship comply with the Contract Documents.
 - k. Indicate a description of trades working on the project; the number of personnel working; weather conditions encountered; and any delays encountered.
- B. Frequency of Reporting: The original and one copy of the records in report form shall be furnished to Construction Manager for each week period of work. As a minimum, one report shall be prepared and submitted for every 7-day period. All calendar days shall be accounted for throughout the life of the Contract. The reports shall be submitted within 24 hours following the 7-day period reported. Reports shall be signed and dated by the CQC System Manager. The report from the CQC System Manager shall include

copies of test reports and copies or reports prepared by all subordinate quality control personnel.

3.08 NOTIFICATION OF NONCOMPLIANCE

- A. Construction Manager will notify the Contractor of any noncompliance with the foregoing requirements. The Contractor shall, after receipt of such notice, immediately take corrective action. If the Contractor fails or refuses to comply promptly, Construction Manager may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders shall be made the subject of claim for extension of time, or for excess costs or damages by the Contractor.

END OF SECTION # 01440

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 01600
MATERIAL AND EQUIPMENT

PART 1 – GENERAL

1.01 SCOPE

- A. These requirements for material and equipment apply, in general, to all equipment. They supplement the detailed equipment specifications. In case of conflict, the detailed material and equipment specification shall govern.

1.02 COORDINATION

- A. The Contractor shall assume full responsibility for the coordination of the installation of all equipment, materials and products furnished under these Contract Documents. The Contractor shall be completely responsible for verification that all structures, piping and equipment components furnished by him and/or his subcontractors and suppliers are compatible.

1.03 PATENT ROYALTIES

- A. All royalties and fees for patents covering materials, articles, apparatus, devices, or equipment shall be included in prices bid by the Contractor. Attention is directed to the requirements of the General Conditions concerning patents.

1.04 ERECTION AND SETTING

- A. The Contractor shall take all measurements necessary to properly fit his work in the field, and he shall be governed by and responsible for those measurements and the proper working out of all details.

1.05 SPECIAL TOOLS AND ACCESSORIES

- A. Equipment, including valves and hydrants, requiring periodic repair and adjustment shall be furnished complete with all special tools, instrument, and accessories required for proper maintenance. Equipment requiring special devices for lifting or handling shall be furnished complete with those devices.

1.06 PAINTING

- A. Unless otherwise specified in the detailed specifications, all equipment including valves and hydrants shall be hop painted. Shop painting shall consist of preparing surfaces in accordance with the requirements of the manufacturer and applying the manufacturer's standard primer.

1.07 TRANSPORTATION HANDLING AND STORAGE

- A. The Contractor shall be responsible for providing satisfactory storage facilities which are acceptable to the Construction Manager. In the event that satisfactory facilities cannot be provided on site, a satisfactory warehouse, acceptable to the Construction Manager, will be provided by the Contractor for such time until equipment, materials, and products can be accommodated at the site.
- B. The Contractor shall be responsible for the maintenance and protection of all equipment, materials, and products placed in storage and shall bear all costs of

storage, preparation for transportation, transportation, rehandling and preparation for installation.

END OF SECTION # 01600

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 01700
PROJECT CLOSEOUT

1. GENERAL REQUIREMENTS

- A. Comply with requirements for administrative procedures stated in this and other sections of the Project Manual in closing out the Work. Closeout procedures are summarized in this Section.
- B. Contract requirements shall be met when design and construction activities have successfully produced, in order, completion of these three closeout stages:
 - 1. Substantial Completion
 - 2. Final Completion
 - 3. Final Payment
- C. The Contractor shall provide all written notices and supporting documentation as described in Paragraphs 2 and 3 below when requesting Substantial Completion and Final Completion, respectively. Partial submittals of the required documents shall not represent a valid request, and the County and Construction Manager shall not be liable for any delays in the Substantial and Final Completion dates arising there from.

2. SUBSTANTIAL COMPLETION

- A. Reference the DEFINITIONS, regarding Substantial Completion.
- B. When the Work is substantially complete, the Contractor shall submit to the Construction Manager:
 - 1. a written notice that the Work, or designated portion thereof, is substantially
 - i. Complete.
 - 2. An original Certificate of Occupancy for the Project (as applicable).
 - 3. a list of items to be completed or corrected (hereinafter referred to as a
 - i. "Punch List").
 - 4. A request for a Substantial Completion inspection on a date acceptable to the County and the Construction Manager.
 - 5. Project record documents, operation & maintenance manuals, warranties, and certificates for review and approval.
- D. Within a reasonable time after receipt of such notice, the Construction Manager, the Contractor, and at its option, the County, will make an inspection to determine the status of completion.
- E. The Punch List submitted by the Contractor will be reviewed in detail, with items added or deleted to indicate Work to be corrected or completed.
 - 1. The Construction Manager reserves the right to issue a revised Punch List.

2. The Construction Manager will reproduce and distribute all necessary copies of any revised Punch List to the Contractor and see that the items requiring correction or completion are given prompt attention by the Contractor.
 3. The Construction Manager may withhold the issuance of the Certificate of Substantial Completion until corrections required by said Punch List are made or all parties are satisfied that they will be made.
- F. Should the Construction Manager determine that the Work is not substantially complete:
1. The Construction Manager will promptly notify the Contractor in writing, giving the reasons therefore.
 2. The Contractor shall remedy the deficiencies in the Work, and then send a second written notice of Substantial Completion to the Construction Manager.
- G. Paragraphs 2.B through 2.D will be repeated.
- H. Should it become necessary to perform more than one (1) re-inspection due to the inaccurate claims of the status of completion made by the Contractor, the Construction Manager may deduct the costs of such re-inspections from the final payment, including but not limited to costs incurred by the Construction Manager, and costs incurred by the Owner for payment of compensation to the Construction Manager, for services performed for the re-inspection(s). Also refer to General Requirements Section 01 400, *Quality Control*.
- I. When the Construction Manager concurs that the Work is substantially complete, the Construction Manager will:
1. Prepare a Certificate of Substantial Completion accompanied by the Contractor's Punch List of items to be completed or corrected, as verified and amended by the Construction Manager and the County. (Note: Contract responsibilities are not altered by inclusion or omission of required Work for the Punch List.)
 2. Sign the Certificate of Substantial Completion and submit it to the County and the Contractor for their written acceptance of the responsibilities assigned to them in the Certificate.

3. FINAL COMPLETION

- A. Reference the Definitions, regarding Final Completion.
- B. To attain Final Completion, the Contractor shall complete the activities pertaining to Substantial Completion Certificate and complete work on all Punch List items. Only then shall a written request to the Construction Manager for final inspection be submitted.
- C. When the Work is complete, the Contractor shall submit to the Construction Manager written certification, signed jointly with its Architect and Engineers of Record (as required), that:
1. The Contract Documents have been complied with in their entirety.
 2. The Work has been inspected for compliance with Contract Documents.
 3. The Work has been completed in accordance with Contract Documents.
 4. The Work is completed and ready for final inspection.
- D. The Construction Manager, Contractor and County will make an inspection to verify the status of completion with reasonable promptness after receipt of such certification.

- E. Should the Construction Manager determine that the Work is incomplete or defective:
 - 5. The Construction Manager will promptly notify the Contractor in writing, listing the incomplete or defective Work.
 - 6. The Contractor shall take immediate steps to remedy the stated deficiencies, and send a second written certification to the Construction Manager that the Work is complete.
- F. Paragraphs 3.B through 3.D will be repeated.
- G. Should it become necessary to perform more than one (1) re-inspection due to failure of the Work to comply with the claims of status of completion made by the Contractor, the Construction Manager may deduct the costs of such re-inspections from the final payment, including but not limited to costs incurred by the Construction Manager, and costs incurred by the Owner for payment of compensation to the Construction Manager, for services performed for the re-inspection(s). Also refer to General Requirements Section 01 400, *Quality Control*.
- H. When the Construction Manager finds that the Work is acceptable under the Contract Documents, the Contractor will be requested to make a final closeout submittal.

4. CONTRACTOR'S CLOSEOUT SUBMITTALS

- A. The Contractor shall provide to the Construction Manager the following documents in the quantity of one original and one copy unless otherwise noted. Note that with the exception of Subparagraphs 4.G, 4.H, 4.J, and 4.K below, submittal for approval shall have already been made prior to Substantial Completion. Submittal under this Paragraph would be for a final submittal should revisions or additional copies be required of previously submitted documentation.
- B. Evidence of Compliance with all requirements of governing authorities:
 - 1. Certificate(s) of Occupancy (as applicable)
 - 2. Certificates of Inspection, for Mechanical, Electrical, Plumbing, Fire Protection, and others as may be required.
- C. Project Record Documents: Refer to Section 01 720 of the General Requirements.
- D. As-Built Drawings
- E. Operation & Maintenance Manuals: Refer to Section 01 730 of the General Requirements.
- F. Subcontractor List: A complete listing of all subcontractors and their suppliers, indicating business addresses, telephone numbers, contact names, and items supplied by each.
- G. Manufacturer List: A listing of manufacturers of major materials, equipment and systems installed in the Work, and local contact addresses and phone numbers.
- H. Warranties: Refer to Section 01 740 of the General Requirements, and individual sections of the Technical Specifications.
- I. Payment of Debts and Claims and Consent of Surety: The Contractor shall submit adequate evidence that the Contractor has paid all obligations to date arising out of the Contract. Contractor shall also submit written consent of its Surety to final payment.

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- J. Release of Claims and Liens: The Contractor and each subcontractor shall also submit a certified Release of Claims and Liens, indicating that the releases for waivers submitted are complete to the best of its knowledge and information.
- K. Final Approvals and Certificates:
1. Plans and Certificates approved by the Fulton County Development Services Department which were maintained at the jobsite shall be amended to show construction changes and resubmitted as required by law.
 2. Contractors requiring filing shall complete all Fulton County inspections and permits records before Application for Final Payment. Submit all approvals and certificates required by the Specifications, Drawings and applicable codes and regulations of all relevant departments or agencies of Fulton County, State of Georgia, and local authority having jurisdiction.
- L. Shop Drawings, Manufacturer's Literature and Test Data (one copy only): The Contractor shall submit through the Construction Manager to the County, before final acceptance, all reviewed shop drawings (with all corrections noted), plus sets of all approved catalog cuts, equipment manuals, etc. All materials shall be indexed by Specification section. This submittal shall include a list of each room and its paint manufacturers and/or wall covering number (as applicable) for the County's use.
- M. Keys and Maintenance Materials: All keys, maintenance kits or stock, replacement parts or materials, spare construction materials, and equipment required under the Contract Documents shall be delivered or made available to the County. Also refer to Section 01 760 of the General Requirements.
- N. No partial submittals of the above items are to be made to the Construction Manager. All items of each category are to be collected by the Contractor and delivered at one time to the Construction Manager, together with a letter of transmittal listing all items. Where items are to be delivered to the County's representative, the Contractor shall include a copy of the transmittal letter listing all enclosures, signed by the County's representative acknowledging receipt.

UNCONDITIONAL WAIVER AND RELEASE
UPON FINAL PAYMENTSTATE OF GEORGIA
COUNTY OF _____

The undersigned mechanic and/or materialman has been employed by _____ (name of contractor) to furnish _____ (describe materials and/or labor) for the construction of improvements known as _____ (title of the project or building) which is located in the City of _____, County of _____, and is owned by _____ (name of owner) and more particularly described as follows:

(DESCRIBE THE PROPERTY UPON WHICH THE IMPROVEMENTS WERE MADE BY
USING EITHER A METES AND BOUNDS DESCRIPTION, THE LAND LOT
DISTRICT, BLOCK AND LOT NUMBER, OR STREET ADDRESS OF THE PROJECT.)

Upon the receipt of the sum of \$_____, the mechanic and/or materialman waives and releases any and all liens or claims of liens or any right against any labor and/or material bond it has upon the foregoing described property.

Given under hand and seal this _____ day of _____, 20__.

_____ (Seal)

(Witness)

(Address)

END OF SECTION # 01700

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 01710
CLEANING

PART 1 - GENERAL

1.01 SCOPE

- A. This Section covers the general cleaning which the Contractor shall be required to perform both during construction and before final acceptance of the Project unless otherwise shown on the Drawings or specified elsewhere in these Specifications.

1.02 QUALITY ASSURANCE

- A. Daily, and more often if necessary, conduct inspections verifying that requirements of cleanliness are being met.
- B. In addition to the standards described in this Section, comply with all pertinent requirements of governmental agencies having jurisdiction.

1.03 HAZARDOUS MATERIAL AND WASTE

- A. The Contractor shall handle hazardous waste and materials in accordance with applicable local, state, and federal regulations. Waste shall also be disposed of in WFPA approved landfills as applicable.
- B. The Contractor shall prevent accumulation of wastes which create hazardous conditions.
- C. Burning or burying rubbish and waste materials on the site shall not be allowed.
- D. Disposal of hazardous wastes or materials into sanitary or storm waters shall not be allowed.

1.04 DISPOSAL OF SURPLUS MATERIALS

- A. Unless otherwise shown on the Drawings, specified or directed, the Contractor shall legally dispose off the site all surplus materials and equipment from demolition and shall provide suitable off-site disposal site, or utilize a site designated by the County.

PART 2 - PRODUCTS

2.01 CLEANING MATERIALS AND EQUIPMENT

- A. Provide all required personnel, equipment and materials needed to maintain the specified standard of cleanliness.

2.02 COMPATIBILITY

- A. Use only the cleaning materials, methods and equipment which are compatible with the surface being cleaned, as recommended by the manufacturer of the material or as approved by the Construction Manager.

PART 3 - EXECUTION

3.01 PROGRESS CLEANING

- A. General

1. Do not allow the accumulation of scrap, debris, waste material and other items not required for construction of this Work.
2. At least each week, and more often if necessary, completely remove all scrap, debris and waste material from the job site.
3. Provide adequate storage for all items awaiting removal from the job site, observing all requirements for fire protection and protection of the environment.

B. Site

1. Daily and more often if necessary, inspect the site and pick up all scrap, debris and waste material. Remove all such items to the place designated for their storage.
2. Re-stack materials stored on site weekly.
3. At all times maintain the site in a neat and orderly condition which meets the approval of the Construction Manager.

C. Structures

1. Weekly and more often if necessary, inspect the structures and pick up all scrap, debris and waste material. Remove all such items to the place designated for their storage.
2. Weekly and more often if necessary, sweep all interior spaces clean. "Clean", for the purpose of this subparagraph, shall be interpreted as meaning free from dust and other material capable of being removed by using a hand-held broom.
3. As required preparatory to installation of successive materials, clean the structures or pertinent portions as recommended by the manufacturer of the successive material.
4. Following the installation of finish floor materials, clean the finish floor daily. "Clean", for the purpose of this paragraph, shall be interpreted as meaning free from all foreign material which, in the opinion of the Construction Manager, may be injurious to the finish floor material.
5. Schedule cleaning operation so that dust and other contaminants resulting from cleaning operations will not fall on wet, recently painted surfaces.

3.02 FINAL CLEANING

- A. Definitions: Unless otherwise specifically specified, "clean" for the purpose of this Article shall be interpreted as the level of cleanliness generally provided by commercial building maintenance subcontractors using commercial quality building maintenance equipment and materials.
- B. General: Prior to completion of the Work, remove from the job site all tools, surplus materials, equipment, scrap, debris and waste. Conduct final progress cleaning as described in 3.01 above.
- C. Site: Unless otherwise specifically directed by the Construction Manager, hose down all paved areas on the site and all sidewalks; rake clean other surfaces of the grounds. Completely remove all resultant debris.
- D. Structures

1. Remove all traces of soil, waste material, splashed material, and other foreign matter to provide a uniform degree of exterior cleanliness. Visually inspect all exterior surfaces and remove all traces of soil, waste material, and other foreign matter. Remove all traces of splashed materials from adjacent surfaces. If necessary to achieve a uniform degree of exterior cleanliness, hose down the exterior of the structure. In the event of stubborn stains not removable with water, the Construction Manager may require light sandblasting or other cleaning at no additional cost to the County.
 2. Visually inspect all interior surfaces and remove all traces of soil, waste material, smudges and other foreign matter. Remove all paint droppings, spots, stains and dirt from finished surfaces.
 3. Clean all glass inside and outside.
 4. Polish all surfaces requiring the routine application of buffed polish. Provide and apply polish as recommended by the manufacturer of the material being polished.
- E. Post-Construction Cleanup: All evidence of temporary construction facilities. Haul roads, work areas, structures, foundations of temporary structures, stockpiles of excess or waste materials, or any other evidence of construction, as directed by the Construction Manager.
- F. Restoration of Landscape Damage: Any landscape feature damaged by the Contractor shall be restored as nearly as possible to its original condition at the Contractor's expense. The Construction Manager will decide what method of restoration shall be used.
- G. Timing: Schedule final cleaning as approved by the Construction Manager to enable the County to accept the Project.
- 3.03 CLEANING DURING COUNTY'S OCCUPANCY
- A. Should the County occupy the Work or any portion thereof prior to its completion by the Contractor and acceptance by the County, responsibilities for interim and final cleaning of the occupied spaces shall be as determined by the Construction Manager in accordance with the Supplementary Conditions of the Contract Documents.

END OF SECTION # 01710

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 01720
PROJECT RECORD DOCUMENTS

1.01 GENERAL

A. The Contractor shall maintain at the site for the County one record copy of:

1. Drawings.
2. Specifications.
3. Addenda.
4. Change orders and other modifications to the Contract.
5. Construction Manager field orders or written instructions.
6. Approved shop drawings, product data, and samples.
7. Field test records.

B. Related Requirements:

1. Section 01050: Construction Layout
2. Section 01200: Project Meetings
3. Section 01340: Shop Drawings, Product Data, and Samples
4. Section 01500: Construction Facilities and Temporary Controls

1.02 MAINTENANCE OF DOCUMENTS AND SAMPLES

A. The Contractor shall store record documents and samples in the field office apart from documents used for construction.

1. Provide files and racks for storage of documents.
2. Provide locked cabinet or secure storage space for storage of samples.

B. Documents and samples shall be filed in accordance with Data Filing Format of the Uniform Construction Index.

C. Documents shall be maintained in a clean, dry, legible condition and in good order. Record documents shall not be used for construction purposes.

D. Documents and samples shall be available at all times for inspection by the Construction Manager.

1.03 MARKING DEVICES

A. The Contractor shall provide felt tip marking pens for recording information in the color code designated by the Construction Manager.

1.04 RECORDING

A. Each document shall be labeled "PROJECT RECORD" in large printed letters.

B. Record information shall be kept current with construction progress.

C. Record Drawings:

1. The Contractor shall keep an accurate record of variations between the work actually provided and that shown on the Contract Drawings. The representation of such variations shall conform to standard drafting practice and shall include such supplementary notes, legends and details as may be necessary for legibility and clear portrayal of the construction.

2. Do not conceal any work until required information is recorded.
3. Following the construction of the project, Contractor shall provide a Record Survey performed by a Registered Professional Land Surveyor. Survey shall accurately reflect installed location, depth, pipe size and other pertinent details. Cost for the survey shall be included in the price bid for pipe and no separate payment will be made for this survey.

1.05 SUBMITTAL

- A. Sketches showing the "Record" information shall be provided monthly to the Construction Manager and submitted with the partial pay request.
- B. The Contractor shall have the complete set of Record Documents certified as to their completeness and correctness by the Resident Inspector and shall deliver the certified Record Documents to the Construction Manager with the final pay estimate.
- C. Each submittal shall be accompanied by a transmittal letter in duplicate, containing:
 1. Date.
 2. Project title and number.
 3. Contractor's name and address.
 4. Title and number of each Record Document.
 5. Signature of the Contractor or his authorized representative.

END OF SECTION # 01720

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 01740
WARRANTIES AND BONDS

PART 1 - GENERAL

1.01 PROJECT MAINTENANCE AND WARRANTY

- A. Maintain and keep in good repair the Work covered by these Drawings and Specifications until acceptance by County.
- B. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve suppliers, manufacturers, and subcontractors required to countersign special warranties with the Contractor, if required in the Contract Documents.
- C. The Contractor shall furnish to the County four (4) copies of bound and indexed notebook containing written warranties for equipment/products furnished under the contract, and a complete listing of such equipment/products. The equipment/products list shall state the specification section applicable to the equipment/product, duration of the warranty therefore; start date of the warranty, ending date of the warranty, and the point of contact for fulfillment of the warranty.
- D. The Contractor shall warrant for a period of one year from the date of County's written acceptance of certain segments of the Work and /or County's written final acceptance of the Project, as defined in the Contract Documents, that the completed Work is free from all defects due to deficient or faulty products or workmanship. The Contractor shall promptly make such corrections as may be necessary by reason of such defects at no additional cost to the County, irrespective of beneficial use of deficient or defective work the County has received through a portion of anticipated useful service lives.
- E. The County will give notice of observed defects with reasonable promptness. In the event that the Contractor should fail to make such corrections, the County may do so and charge the Contractor the cost thereby incurred. The Performance Bond shall remain in full force and effect throughout the warranty period.
- F. The Contractor shall not be obligated to make replacements which become necessary because of *Force Majeure* conditions, ordinary wear and tear, or as a result of improper operation or maintenance or as a result of improper work or damage by another Contractor or the County, or to perform work which is normally performed by a maintenance crew during routine maintenance and operation.
- G. In the event of malfunctions or failures prior to the expiration of the one year warranty described above, the County will notify the Contractor of the malfunctions or failures. The Contractor shall disassemble, inspect and modify or replace the affected unit, as necessary to prevent further occurrences. All related components which may have been damaged or rendered non-serviceable as a consequence of the failure shall be replaced. A new 12 month warranty against defective or deficient design, workmanship, and materials shall commence on the day that the item is reassembled and placed back into operation. As used herein, failure may include, but are not limited to, cracked or broken

housings, piping, or vessels, excessive deflections, bent or broken shafts, broken or chipped gear teeth, premature bearing failure, excessive wear or excessive leakage around seals. Failures which are directly and clearly traceable to operator abuse, such as operations in conflict with published operating procedures or improper maintenance, such as substitution of unauthorized replacement parts, use of incorrect lubricants or chemicals, flagrant over-or under-lubrication and using maintenance procedures not conforming with published maintenance instructions, shall be exempted from the scope of the one year warranty. Should multiple (two or more) failures occur in a given item, all products of the same size and type shall be disassembled, inspected, modified or replaced as necessary and re-warranted for one year.

- H. The Contractor shall, at Contractor's expense, furnish all labor, materials, tools, equipment and services, including packaging, handling and shipping, required and shall make such repairs and removals and shall perform such work or reconstruction as may be necessary by any structural or functional defect or failure resulting from deficiency, neglect, faulty workmanship or faulty materials, in any part of the Work performed by the Contractor. Such repair shall also include refilling of trenches, excavations or embankments which show settlement or erosion after backfilling or placement.
- I. Except as noted on the Drawings or as specified, all structures such as embankments and fences shall be returned to their original condition prior to the completion of the Contract. Any and all damage to any facility not designated for removal, resulting from the Contractor's operations, shall be promptly repaired by the Contractor at no cost to the County.
- J. The Contractor shall be responsible for all road and entrance reconstruction and repairs and maintenance of the same for a period of one year from the date of final acceptance. In the event of the repairs and maintenance are not made immediately and it becomes necessary for the County of the road to make such repairs, the Contractor shall reimburse the County of the road for the cost of such repairs.
- K. At no additional cost to the County, the Contractor shall provide temporary equipment, materials and services to adequately maintain the functionality of the system, as necessitated by the reason of defective or deficient Work by the Contractor. The Contractor shall provide the necessary provide temporary equipment, materials and services until the Contractor's defective or deficient Work has been corrected and the Contractor-provided temporary equipment, materials and services are no longer required to adequately maintain the functionality of the system.
- L. In the event the Contractor fails to proceed to remedy the defects upon notification within 15 days of the date of such notice, the County reserves the right to cause the required materials to be procured and the work to be done, as described in the Drawings and Specifications, and to hold the Contractor and the sureties on Contractor's bond liable for the cost and expense thereof.
- M. Notice to contractor for repairs and reconstruction will be made in the form of a registered letter addressed to the Contractor at Contractor's home office.
- N. Neither the foregoing paragraphs nor any provision in the Contract Documents, nor any special guarantee time limit implies any limitation of the Contractor's liability within the law of the place of construction.

1.02 TRANSFER OF WARRANTIES TO OWNER

- A. The Contractor shall transfer all residual Coincidental Product Warranties to the Owner at the end of the warranty period required by the Contract Documents. Coincidental Product Warranty is a warranty which is not specifically required by Contract Documents (other than as specified in this Section), but which is available on a product incorporated into the Work, by virtue of the fact that manufacturer of product has published a warranty in connection with purchases and uses of product without regard for specific applications except as otherwise limited by terms of warranty.

END OF SECTION # 01740

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 02100
SITE PREP

PART 1 GENERAL

1.01 Scope

- A. This Section described materials and equipment to be utilized and requirements for their use in preparing the work site for construction. The Design-BUILDER shall furnish all materials, equipment and labor necessary to complete the work.
- B. Comply with applicable codes, ordinances, rules, regulations and laws of local, municipal, state or federal authorities having jurisdiction.

1.02 Clearing and Grubbing

- A. Within the limits shown on the Drawings, the site will be cleared and grubbed to prepare for construction.
- B. Clearing
 - 1. All vegetable growth such as trees, shrubs, brush, logs, upturned stumps and roots of down trees, and other similar items shall be removed and disposed of properly by the Design-BUILDER as specified below. Cultivated growth shall be removed and trees felled as necessary within the construction work site and as indicated.
 - 2. Where the tree limb structure interferes with utility wires, or where the trees to be felled are in close proximity to utility wires, the tree shall be taken down in sections to eliminate the possibility of damage to the appropriate utility.
 - 3. All buildings, fences, lumber piles, trash and obstructions, except utility poles shall be removed and disposed of by the Design-BUILDER. Any work pertaining to utility poles shall comply with the requirements of the appropriate utility.
 - 4. All fences adjoining any excavation or embankment that may be damaged or buried shall be carefully removed, stored and replaced.
- C. All stumps, roots, foundations and planking embedded in the ground shall be removed and disposed of properly by the Design-BUILDER as specified below. Piling and butts of utility poles shall be removed to a minimum depth of two feet below the limits of excavation for structures, trenches and roadways or two feet below finish grade, whichever is lower.

1.03 Preliminary Grading

- A. Before beginning construction, the Design-BUILDER shall grade the entire work site to conform, in general, to the finish elevations shown on the Drawings. The Drawings show both existing contour elevations and finished contour elevations.

1.04 Testing and Inspection Services

- A. Soil testing will be performed by an independent testing laboratory selected by the Owner. Payment for soil testing shall be made by the Design-Builder from the "Soils And Concrete Testing" cash allowance.
- B. The soils testing laboratory is responsible for the following:
 - 1. Compaction tests in accordance with ASTM D 698.
 - 2. Field density tests for each two feet of lift; one test for each 5,000 square feet of fill.
 - 3. Inspecting and testing stripped site, subgrades and proposed fill materials.
- C. The Design-Builder's duties relative to testing include:
 - 1. Notifying the laboratory of conditions requiring testing.
 - 2. Coordinating with the laboratory for field testing.
 - 3. Providing representative fill soil samples to laboratory for test purposes. Provide 50 pound samples of each fill soil.
 - 4. Paying costs for additional testing performed beyond the scope of that required and for retesting where initial tests reveals non-conformance with specified requirements.
- D. Inspection:
 - 1. Earthwork operations, suitability of excavated materials for fill and backfill, and placing the compaction of fill and backfill is subject to inspection. The Engineer will observe earthwork operations.
 - 2. Foundations and shallow spread footing foundations are required to be inspected by a geotechnical engineer to verify suitable bearing and construction.

PART 2 PRODUCTS (NOT USED)**PART 3 EXECUTION****3.01 Preparation**

- A. Maintain bench marks, monuments and other reference points. Re-establish, at no cost to the Owner, any such reference points if disturbed or destroyed.

3.02 Clearing

- A. Clear areas required for access to site and execution of work.
- B. Remove trees and shrubs within the area to be cleared.
- C. Clear undergrowth and deadwood, without disturbing subsoil.

3.03 Disposal of Refuse

- A. The refuse resulting from the clearing and grubbing operation shall be hauled to a disposal site secured by the Design-Builder and shall be disposed of in accordance with all requirements of federal, state, county and municipal regulations. No debris of any kind shall be deposited in any stream or body of water, or in any street or alley. No debris shall be deposited upon any private property except with written consent of the property owner. In no case shall any

material be left on the Project, shoved onto abutting private properties, or be buried in embankments or trenches on the Project.

- B. When approved in writing by the Engineer and when authorized by the proper authorities, the Design-Builder may dispose of such refuse by burning on the site of the Project provided all requirements set forth by the authorities are met. The authorization to burn shall not relieve the Design-Builder in any way from damages which may result from Design-Builder's operations. On easements through private property, the Design-Builder shall not burn on the site.

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 02126
STREAM CROSS AND CONSTRUCTION EXITS

PART 1 GENERAL

1.01 SCOPE

- A. The section shall apply to all temporary road construction, including stream crossings and access roads.
- B. Temporary road construction includes, but is not limited to, providing all construction exits, rip-rap, traffic control, and excavation work necessary to create vehicular access throughout the entire length of the project.

1.02 DEFINITIONS

- A. A “construction exit” is defined as a stone-stabilized pad located at any point where traffic will be leaving a construction site to a public right-of-way, street, alley, sidewalk, or parking area.
- B. A “stream crossing” is defined as a temporary structure installed across a flowing stream or watercourse for use by construction equipment.

1.03 JOB CONDITIONS

- A. Location of the Work: The area to be constructed as shown schematically on the Drawings or specified below.

PART 2 PRODUCTS

2.01 EQUIPMENT

- A. The Contractor shall furnish equipment of the type normally used in temporary road construction operations, including, but not limited to, tractors, trucks, loaders, graders, bulldozers, and cranes.

PART 3 EXECUTION

3.01 CONSTRUCTION EXIT

- A. Provide temporary stone exit/entrance pad located at points of vehicular ingress and egress to the site and maintain in service until instructed otherwise by the Construction Manager. Minimum pad thickness shall be 6 inches; minimum length shall be 50 feet. Maintain in a condition that will prevent tracking or flow of mud onto public road. Construction Exits shall conform with the requirements set forth in the Manual for Erosion and Sediment Control in Georgia Fifth Edition (2000), Georgia Soil and Water Conservation Commission. Excerpts from the manual are included in this Specification.

3.02 STREAM CROSSINGS

- A. Provide temporary stream crossings located at points of vehicular crossings and maintain in service until instructed otherwise by the Construction Manager. Structures shall be protected from washout during periods of peak discharges by diverting water around the structures. Structures shall be designed to withstand flows from a 10-year, 24 hour frequency storm or the storm specified in Title 12-

7-1 of the Official Code of the Georgia Annotated. *Contractor shall obtain the services of a licensed Georgia Professional Engineer (P.E.) to size these structures and certify that the design has met the above referenced criteria.* Excerpts from the Manual for Erosion and Sediment Control in Georgia Fifth Edition (2000) are included in this specification for reference.

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END OF SECTION # 02126

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 02200
EARTHWORK

PART 1 GENERAL

1.01 SCOPE

- A. This Section includes earthwork and related operations, including, but not limited to, clearing and grubbing the construction site, dewatering, excavating all classes of material encountered, pumping, draining and handling of water encountered in the excavations, handling, storage, transportation and disposal of all excavated and unsuitable material, construction of fills and embankments, backfilling around structures and pipe, backfilling all trenches and pits, compacting, all sheeting, shoring and bracing, preparation of subgrades, surfacing and grading, and any other similar, incidental, or appurtenant earthwork operation which may be necessary to properly complete the work.
- B. The Design-Builder shall provide all services, labor, materials and equipment required for all earthwork and related operations necessary or convenient to the Design-Builder for furnishing complete Work as shown on the Drawings or specified in these Contract Documents.

1.02 GENERAL

- A. The elevations shown on the Drawings as existing are taken from the best existing data and are intended to give reasonably accurate information about the existing elevations. They are not precise and the Design-Builder shall become satisfied as to the exact quantities of excavation and fill required.
- B. Earthwork operations shall be performed in a safe and proper manner with appropriate precautions being taken against all hazards.
- C. All excavated and filled areas for structures, trenches, fills, topsoil areas, embankments and channels shall be maintained by the Design-Builder in good condition at all times until final acceptance by the Owner. All damage caused by erosion or other construction operations shall be repaired by the Design-Builder using material of the same type as the damaged material.
- D. Earthwork within the rights-of-way of the Department of Transportation, the County Road Department and the respective cities shall be done in accordance with requirements and provisions of the permits issued by those agencies for the construction within their respective rights-of-way. Such requirements and provisions, where applicable, shall take precedence and supersede the provisions of these Specifications.
- E. The Design-Builder shall control grading in a manner to prevent surface water from running into excavations. Obstruction of surface drainage shall be avoided and means shall be provided whereby storm water can be uninterrupted in existing gutters, other surface drains or temporary drains. Free access must be provided to all fire hydrants, watergates and meters.
- F. No classification of excavated materials will be made. Excavation work shall include the removal and subsequent handling of all materials excavated or

otherwise removed in performance of the work, regardless of the type, character, composition or condition thereof.

- G. Tests for compaction and density shall be conducted by the Engineer or by an independent testing laboratory selected by the Engineer. Costs of compaction tests performed by an independent testing laboratory shall be paid for directly by the Owner and not as a part of this Contract. The Design-Builder shall make all necessary excavations and shall supply any samples of materials necessary for conducting compaction and density tests. The cost of all retests made necessary by the failure of materials to conform to the requirements of these Contract Documents shall be paid by the Design-Builder.
- H. All earthwork operations shall comply with the requirements of OSHA Construction Standards, Part 1926, Subpart P, Excavations, Trenching, and Shoring, and Subpart O, Motor Vehicles, Mechanized Equipment, and Marine Operations, and shall be conducted in a manner acceptable to the Engineer.
- I. It is understood and agreed that the Design-Builder has made a thorough investigation of the surface and subsurface conditions of the site and any special construction problems which might arise as a result of nearby watercourses and floodplains, particularly in areas where construction activities may encounter water-bearing sands and gravels or limestone solution channels. The Design-Builder shall be responsible for providing all services, labor, equipment and materials necessary or convenient to the Design-Builder for completing the work within the time specified in these Contract Documents.

PART 2 PRODUCTS

2.01 MATERIALS AND CONSTRUCTION

- A. Earthwork Materials
 - 1. Fill Material, General
 - a. Approval Required: All fill material shall be subject to the approval of the Engineer.
 - b. Notification: For approval of imported fill material, notify the Engineer at least one week in advance of intention to import material, designate the proposed borrow area and permit the Engineer to sample as necessary from the borrow area for the purpose of making acceptance tests to prove the quality of the material.
 - 2. On-Site Fill Material: All on-site fill material shall be soil exclusive of organic matter, frozen lumps or other deleterious substances. On-site fill material shall contain no rocks or lumps over 3-inches maximum in dimension.
 - 3. Imported Fill Materials: All imported fill material shall meet the requirements of on-site fill material.
 - 4. Sand Cushions and Sand Fill: Sand cushions and sand fill shall consist of a sand-gravel fill of such gradation that 100 percent will pass a 3/8-inch sieve and not more than 10 percent by weight is lost by washing.
 - 5. Coarse Aggregate: Coarse aggregate shall conform to the Georgia Department of Transportation Standard Specifications for Construction of

Road and Bridges, 800.01 for No. 57 Stone, Group II and shall have the following gradation:

| Sieve Size | Percent Passing |
|------------|-----------------|
| 2-inch | - |
| 1-1/2-inch | 100 |
| 1-inch | 95 - 100 |
| 1/2-inch | 25 - 60 |
| No. 4 | 0 - 10 |
| No. 8 | 0 - 5 |

6. Fine Aggregate: All fine aggregate shall conform to the Georgia Department of Transportation Standard Specifications for Construction of Road and Bridges, 801.01 and shall have the following gradation:

| Sieve Size | Percent Passing |
|------------|-----------------|
| No. 4 | 100 |
| No. 16 | 25 - 75 |
| No. 100 | 0 - 25 |

7. Pea Gravel: Pea gravel shall be clean, naturally rounded aggregate, 1/8 to 3/4-inch in diameter per ASTM C 33.
8. Top Soil: Dark organic weed free loam, free of muck.
- B. Sheeting, Bracing and Timbering: The Design-Builder shall furnish, place and maintain all sheeting, bracing and timbering required to properly support trenches and other excavations in open cut and to prevent all movement of the soil, pavement, structures or utilities outside of the trench or pit.
1. General
- Cofferdams and bracing design, including computations, shall be prepared before commencing construction operations. Drawings and design computations shall be signed and sealed by a professional engineer registered in the State of Georgia. The drawings and design computations shall not be submitted to the Engineer.
 - Sheeting, bracing and timbering shall be so placed as to allow the work to be constructed to the lines and grades shown on the Drawings and as ordered by the Engineer.
 - If at any time the method being used by the Design-Builder for supporting any material or structure in or adjacent to any excavation is not reasonably

- safe, the Design-Builder shall provide additional bracing and support necessary to furnish the added degree of safety.
- d. All sheeting in contact with the concrete or masonry shall be cut off as directed by the Engineer and left in place.
 2. Timber: Timber may be substituted for steel sheet piling when approved by the Engineer. Timber for shoring, sheeting or bracing shall be sound and free of large or loose knots and in good condition. Size and spacing shall be in accordance with OSHA regulations.
 3. Steel Sheet Piling: Steel sheet piling shall be the continuous interlock type. The weight, depth and section modulus of the sheet piling shall be sufficient to restrain the loads of earth pressure and surcharge from existing foundations and/or live loads. Procedure for installation and bracing shall be so scheduled and coordinated with the removal of the earth that the ground under existing structures shall be protected against lateral movement at all times. The Design-Builder shall provide closure and sealing between sheet piling and existing facilities. Steel piling within three feet of an existing building, structure or pipeline shall remain in place, unless otherwise directed by the Engineer.
 4. Remove bracing and sheeting in units when backfill reaches the point necessary to protect the structures and adjacent property. Leave sheeting in place when in the opinion of the Engineer it cannot be safely removed. Cut off sheeting left in place at least two feet below the surface.
- C. Other Materials: All other materials, not specifically described but required for proper completion of the work of this Section, shall be as selected by the Design-Builder subject to the approval of the Engineer.
- D. Stockpile Area: The stockpile area shown on the Drawings, or as directed by the Engineer, shall be used to stockpile soil material for backfilling around structures and to stockpile needed topsoil.

PART 3 EXECUTION

3.01 GENERAL

- A. Safety: Comply with local regulations and with the provisions of the "Manual of Accident Prevention in Construction" of the Associated General Contractors of America, Inc., Occupational Safety and Health Act and all other applicable safety regulations.
- B. Topsoil
 1. Remove all topsoil to a depth at which subsoil is encountered, from all areas under buildings, pavements, and from all areas which are to be cut to lower grades or filled.
 2. With the Engineer's approval, topsoil to be used for finish grading may be stored on the site.
 3. Other topsoil may be used for fill in non-critical areas with approval of the Engineer.
 4. Properly dispose of all excess topsoil off site.

C. Bracing and Sheeting

1. Furnish, put in place, and maintain all sheeting, bracing and shoring as may be required to properly support the sides of all excavations and to prevent all movement of earth which could in any way injure the work, adjacent property or workers.
2. Properly support all excavations in locations indicated on the Drawings and where necessary to conform to all pertinent rules and regulations and these Specifications, even though, such locations are not indicated on the Drawings.
3. Exercise care in the removal of sheeting, shoring, bracing and timbering to prevent collapse or caving of the excavation faces being supported and damage to the work and adjacent property.
4. Do not leave any sheeting or bracing in the trench or excavation after completion of the work, unless approved by the Engineer.

D. Obstructions

1. Remove and dispose of all trees, stumps, roots, boulders, sidewalks, driveways, pavement, pipes and the like, as required for the performance of the work.
2. Exercise care in excavating around catch basins, inlets and manholes so as not to disturb or damage these structures.
3. Avoid removing or loosening castings or pushing dirt into catch basins, inlets and manholes.
4. Damaged or displaced structures or casting shall be repaired, replaced and dirt entering the structures during the performance of the work shall be removed at no additional cost to the Owner.

E. Utilities to be Abandoned

1. When pipes, conduits, sewers or other structures are removed from the trench leaving dead ends in the ground, such ends shall be fully plugged or sealed with brick and non-shrink grout.
2. Abandoned structures such as manholes or chambers shall be entirely removed unless otherwise specified or indicated on the Drawings.
3. All materials from abandoned utilities which can be readily salvaged shall be removed from the excavation and stored on the site at a location as directed by the Owner.
4. All salvageable materials will remain the property of the Owner unless otherwise indicated by the Owner.

F. Extra Earth Excavation

1. In case soft or excessively wet material which, in the opinion of the Engineer, is not suitable, is encountered below the final subgrade elevation of an excavation or underneath a structure, the Engineer may order the removal of this material and its replacement with crushed stone or other

suitable material in order to make a suitable foundation for the construction of the structure.

G. Cutting Paved Surfaces and Similar Improvements

1. Remove existing pavement as necessary for installing pipe utilities and appurtenances or as otherwise shown on the Drawings.
2. Before removing any pavement, mark the pavement neatly, paralleling pipe lines and existing street lines. Space the marks the width of the trench.
3. Break asphalt pavement along the marks using jack hammers or other suitable tools. Break concrete pavement along the marks by use of jack hammers or by scoring with a rotary saw and breaking below the score by the use of jack hammers or other suitable tools.
4. Do not pull pavement with machines until completely broken and separated from pavement to remain.
5. Do not disturb or damage the adjacent pavement. If the adjacent pavement is disturbed or damaged, remove and replace the damaged pavement. No additional payment will be made for removing and replacing damaged adjacent pavement.
6. Remove and replace sidewalks disturbed by construction for their full width and to the nearest undisturbed joint.
7. The Design-Builder may tunnel under curbs that are encountered. Remove and replace any curb disturbed by construction to the nearest undisturbed joint.

3.02 EXCAVATION

A. Method

1. All excavation shall be by open cut from the surface except as indicated on the Drawings.
2. All excavations for pipe appurtenances and structures shall be made in such manner and to such depth and width as will give ample room for building the structures and for bracing, sheeting and supporting the sides of the excavation, for pumping and draining groundwater and wastewater which may be encountered, and for the removal from the excavation of all materials excavated.
3. Take special care so that the soil below the bottom of the structure to be built is left undisturbed.

B. Grades

1. Excavate to grades indicated on the Drawings.
2. Where excavation grades are not indicated on the Drawings, excavate as required to accommodate installation.

C. Disposal of Excavated Material

1. Remove and properly dispose of all excavated material not needed to complete filling, backfilling and grading.

2. Dispose of excavated material off site at locations secured by the Design-Builder and in accordance with all requirements of federal, state, county and municipal regulations. No debris of any kind shall be deposited in any stream or body of water, or on any street or alley. No debris shall be deposited on any private property except by written consent of the property owner. In no case shall any material be left on the Project, shoved onto abutting private properties, or be buried in embankments or trenches on the Project.

3.03 EXCAVATION FOR STRUCTURES

A. Earth Excavation

1. Earth excavation shall include all substances to be excavated other than rock. Earth excavation for structures shall be to limits not less than two feet outside wall lines, to allow for formwork and inspection, and further as necessary to permit the trades to install their work. All materials loosened or disturbed by excavation shall be removed from surfaces to receive concrete or crushed stone.
2. No separate payment will be made for earth excavation. The cost of such work and all costs incidental thereto shall be included in the price bid for the item to which the work pertains.

B. Rock Excavation

1. Definition of Rock: Any material which cannot be excavated with a single-tooth ripper drawn by a crawler tractor having a minimum draw bar pull rated at not less than 56,000 pounds (comparable to Caterpillar D 8K or comparable to Caterpillar 977 front-end loader, and occupying an original volume of at least one cubic yard). The Engineer shall be the sole determinant as to the limits to which the material is classified as rock.
2. Excavation: Where rock is encountered within excavation for structures, it shall be excavated to the lines and grades indicated on the Drawings or as otherwise directed by the Engineer. The Design-Builder shall be responsible for obtaining any blasting permits required.
3. Blasting: Blasting operations shall be conducted in accordance with all existing ordinances and regulations. All structures shall be protected from the effects of the blast. The blasting shall be done by licensed experienced workers. Dispose of excavated rock in accordance with applicable federal, state, county and local regulations.
 - a. If, in the sole opinion of the Engineer, the Design-Builder persistently uses excessive blasting charges or blasts in an unsafe or improper manner, the Engineer will direct the Design-Builder to employ an independent, qualified blasting consultant, approved by the Engineer, to supervise the preparation for each blast and approve the quantity of each charge. The cost of the blasting consultant will be paid for by the Design-Builder and the Design-Builder shall not be reimbursed through the Contract allowance. The qualified blasting consultant when required to perform drilling and blasting will be paid for by the Design-Builder.

- b. The Design-Builder will notify the Inspector before any charge is set and prior to blasting. Following review by the inspector regarding the proximity (normally within 300 linear feet) of permanent structures to the blasting site, the Engineer may direct the Design-Builder to employ an independent qualified specialty subcontractor, approved by the Engineer, to monitor the blasting by use of seismograph, identify areas where light charges must be used, conduct pre-event and post-event inspections of all structures, including photographs or videos, and maintain a detailed written log. The cost of this independent qualified specialty subcontractor will be paid for through the Contract allowance. The specialty subcontractor allowance will be used only to pay for a specialty subcontractor when directed by the Engineer to monitor blast, conduct pre-event and/or post-event inspections and maintain a log of these activities.
- c. Any damage done shall be promptly repaired by the Design-Builder at the Design-Builder's own expense.
- d. Rock excavation will be paid for as an extra in addition to payment for earth excavation provided for elsewhere in these Specifications. Payment will be made for measured quantity of rock excavated, at the unit price bid per cubic yard. The unit price for rock excavation shall include the cost of rock excavation, the cost of handling sufficient and suitable fill material and all costs incidental thereto. The allowable volume of rock excavation for payment, unless otherwise authorized by the Engineer, shall be based on the following measurements:
 - i. Horizontal measurement shall be to the actual dimension of the excavation, but not exceeding one foot in the clear outside the outer surface of the structure or a minimum of two feet from a wall.
 - ii. Depth measurement shall be made from the original top of rock to the bottom of the structure as constructed, or to the bottom of the rock, if above grade.
- 4. No allowance shall be made for overcutting or for excavation below the required elevations. The Engineer must be given reasonable notice to measure all rock.
- 5. If excess excavation is made or the material becomes disturbed so as to require removal below final subgrade elevations or beyond the prescribed limits, the resulting space shall be refilled with Class "C" concrete in accordance with Section 03300 of these Specifications.
- C. Excavation for Foundations: Footings and slabs on grades shall rest on undisturbed earth, rock or compacted materials to insure proper bearing.
 - 1. Unsuitable Foundation Material
 - a. Any material in the opinion of the Engineer which is unsuitable for foundation shall be removed and replaced with compacted crushed stone, or with compacted fill material as directed by the Engineer.

Crushed stone shall meet the requirements of the Georgia Department of Transportation Specification 800.01 for No. 57 stone.

- b. No determination of unsuitability will be made until all requirements for dewatering are satisfactorily met.

2. Foundation in Rock

- a. Foundations for a structure shall be on similar materials. Should excavation for a foundation be partially in rock, the Design-Builder shall undercut that portion of the rock 12-inches and bring the excavation to grade with compacted crushed stone.
- b. Where ordered by the Engineer, undercutting of rock and replacement with crushed stone will be paid for at the unit price bid for rock excavation. The quantity shall equal one foot of depth over the horizontal dimensions authorized by the Engineer.

3. Pipe Trenches Beneath Structures

- a. Where piping or conduit passes beneath footings or slabs resting on grade, trenches shall be excavated to provide a minimum of 6-inches clearance from all surfaces of the pipe or conduit. The trench shall be backfilled to the base of the structure with concrete.
- b. No separate payment will be made for concrete backfill of trenches beneath structures. The cost of this work and all costs incidental to it shall be included in the price bid for the item to which the work pertains.

4. Unauthorized Excavation

- a. Care shall be taken that excavation does not extend below bottom levels of footings or slabs on earth or rock. Should the excavation, through carelessness or neglect, be carried below such levels, the Design-Builder shall fill in the resulting excess excavation with concrete under footings and compacted crushed stone or other approved material under slabs. Crushed stone or gravel shall meet the Georgia Department of Transportation Specification 800.01 for No. 57 stone. Should excavation be carried beyond outside lines of footings such excess excavation shall be filled with concrete, or formwork shall be provided, as directed by the Engineer.
- b. Additional costs of corrective work, made necessary by unauthorized excavation of earth or rock, shall be borne by the Design-Builder.

D. Unsuitable Bearing

- 1. If suitable bearings for foundations are not encountered at the elevations indicated on the Drawings, immediately notify the Engineer.
- 2. Do not proceed further until instructions are received and necessary measurements made for purposes of establishing additional volume of excavation.

3.04 FILL

A. Controlled Fill

1. The fill for roadways, parking areas, walks, structures, and building slabs on grade shall be controlled fill.
2. After the existing ground or excavated area has been proofrolled and examined by the Engineer, all holes and other irregularities shall be filled and compacted before the main fill is placed.
3. The fill shall be placed in even layers not exceeding 10-inches in depth and shall be thoroughly compacted as herein specified.
4. If an analysis of the soil being placed shows a marked difference from one location to another, the fill being placed shall not be made up of a mixture of these materials.
5. Each different type of material shall be handled continuously so that field control of moisture and density may be based upon a known type of material.
6. No fill shall be placed following a heavy rain without first making certain on isolated test areas that compaction can be obtained without damage to the already compacted fill.

B. Proofrolling

1. All areas where roadways, parking areas, sidewalks, structures, and buildings are to be constructed on cut areas, compacted fill, and other areas where indicated on the Drawings, shall be proofrolled to detect soft spots prior to the placement of fill material and after placement of fill, which shall be construction of foundations.
2. Proofrolling shall consist of moving a 20-30 ton loaded dump truck or other pneumatic tire roller over the subgrade before the subgrade is shaped. Proofrolling shall be witnessed by the Engineer.
3. Pneumatic-tired rollers shall have not fewer than four pneumatic tired wheels which shall be of such size and ply that tire pressures can be maintained between 80 and 100 pounds per square inch for 25,000 pound wheel load during rolling operations. Unless otherwise required, rolling shall be done with tires inflated to 90 psi. The roller wheels shall be located abreast in a rigid steel frame. Each wheel shall be loaded with an individual weight box so that each wheel will bear an equal load when traversing uneven ground. The weight boxes shall be suitable for ballast loading such that the load per wheel shall be 25,000 pounds. The spacing of the wheels shall insure that the distance between the nearest edges of adjacent tires shall be not greater than one-half of the tire width of a single tire at the operating pressure for a 25,000 pound wheel load. The roller shall be operated no faster than 10 miles per hour.
4. Subgrade shall be proofrolled with six passes of the truck or roller. Depressions that develop during the proofrolling operation shall be filled with suitable material and those filled areas shall be proofrolled with six passes of the roller. If, after having been filled and proofrolled, the subgrade still contains depressions, the area shall be undercut to the full depth of the soft material or five feet whichever is less, backfilled, recompacted, and rolled to achieve a subgrade acceptable to the Engineer.

5. After the proofrolled subgrade has been accepted by the Engineer, the surface of the subgrade shall be finish rolled with a smooth steel wheel roller weighing not less than 10 tons. Finished surface of the subgrade shall be within a tolerance of 1/4-inch at every point.
6. Conduits, pipes, culverts and underdrains shall be neither disturbed nor damaged by proofrolling operations. Rollers shall neither pass over, nor approach closer than five feet to, conduits, pipes, culverts and underdrains unless the tops of those products are deeper than three feet.

C. Placement

1. Prior to placement of any material in embankments, the area within embankment limits shall be stripped of topsoil and all unsuitable materials removed as described under Article 3.02. The area shall then be scarified to a depth of at least 6-inches.
2. Fill materials shall be placed in continuous approximately horizontal layers extending the full width of the embankment cross-section and the full dimension of the excavation where practical and having a net compacted thickness of not over 6-inches.
3. Fill materials shall be placed at optimum moisture content within practicable limits (not less than one percent below optimum). Optimum moisture shall be maintained by sprinkling the layers as placed or by allowing materials to dry before placement.

D. Compaction

1. Fill materials shall be compacted to dry densities as determined by the Standard Proctor Compaction Test performed in accordance with ASTM D 698.
2. Fill materials supporting roadways, parking areas, sidewalks, structures, and buildings, and backfill around structures, buildings, and walls shall be compacted to 95 percent of the maximum dry density. The top 12-inches of fill material supporting roadways, parking areas, sidewalks, structures, and buildings shall be compacted to 98 percent of the maximum dry density. Fill placed for general site grading shall be compacted to 90 percent of the maximum dry density.
3. Compaction of embankments shall be by sheepfoot rollers with staggered, uniformly spaced knobs and suitable cleaning devices. The projected area of each knob and the number and spacing of the knobs shall be such that the total weight of the roller and ballast when distributed over the area of one row of knobs shall be 250 psi. Placement and compaction of materials shall extend beyond the final contours sufficiently to insure compaction of the material at the resulting final surface. Final contours shall then be achieved by a tracked bulldozer shaping the face of the embankment.
4. Compaction of backfill around structures shall be accomplished by heavy power tamping equipment.
5. If tests indicate that density of fill is less than that specified, the area shall be either recompacted or undercut, filled, and compacted until specified density is achieved.

- E. Final Grading:
 - 1. Upon completion of construction operations, the area shall be graded to finish contour elevations and grades shown on the Drawings. Graded areas shall be made to blend into conformation with remaining ground surfaces. All surfaces shall be left smooth and free to drain.
- F. Excess Material
 - 1. Any excess earth excavation and unsuitable materials shall be placed on the site as directed by the Engineer. Surfaces and slopes of waste fills shall be left smooth and free to drain.
 - 2. No separate payment will be made for backfilling. The cost of all such work and all costs incidental thereto shall be included in the price bid for the item to which the work pertains.
- G. Moisture
 - 1. All fill shall be compacted with the moisture content as established by the 98 percent intercept on the moisture density curves on the moisture content at the shrinkage limit, whichever is less.
 - 2. If fill material is too wet, provide and operate approved means to assist the drying of the fill until suitable for compaction.
 - 3. If fill material is too dry, provide and operate approved means to add moisture to the fill layers.

3.05 BACKFILLING

- A. Backfill carefully to restore the ground surface to its original condition. Dispose of surplus material.
- B. Compact backfill underlying roadways, parking areas, sidewalks, structures, and buildings to 95 percent of the maximum dry density.
- C. Backfill for Pipe
 - 1. Initial: Place initial backfill material carefully around the pipe above bedding in uniform 6-inch layers to a depth of at least 18-inches above the pipe bell. Compact each layer thoroughly with suitable hand tools. Do not disturb or damage the pipe. Backfill on both sides of the pipe simultaneously to prevent side pressures. Initial backfill material is earth material excavated from the trench which is clean and free of rock, organics, and other unsuitable material. If materials excavated from the trench are not suitable for use as initial backfill material, obtain suitable materials elsewhere.
 - 2. Final: After initial backfill material has been placed and compacted, backfill with general excavated material. Place backfill material in uniform layers and thoroughly compact with heavy power tamping tools of the "Wacker" type.
 - 3. Settlement: If trenches settle, re-fill and grade the surface to conform to the adjacent surfaces.
 - 4. Additional Material
 - a. Where final grades above the pre-existing grades are required to maintain minimum cover, additional fill material will be shown on the Drawings.

- b. Utilize excess material excavated from the trench if the material is suitable. No additional payment will be made for additional material when excavated materials are used.
 - c. If excess excavated materials are not suitable, or if the quantity available is not sufficient, provide suitable additional fill material. Payment for additional material imported to the job site will be made for the quantity of materials provided at the unit price bid.
- D. Backfilling Around Structures
- 1. General
 - e. Remove debris from excavations before backfilling.
 - f. Do not backfill against foundation walls until so directed by the Engineer or until all indicated perimeter insulation and/or waterproofing is in place.
 - g. Protect such insulation and/or waterproofing during filling operations.
 - h. Wherever possible, backfilling shall be simultaneous on both sides of walls to equalize lateral pressures.
 - i. Do not backfill against walls until all permanent construction is in place to furnish lateral support on both top and bottom of wall.
 - j. Backfilling against walls is to take place after all the concrete in the affected members has attained the specified strengths.
 - 2. Materials: Backfill material placed against structures built or encountered during the work of this Section shall be suitable fill material. No broken concrete, bricks or similar materials will be permitted as backfill.

3.06 GRADING

- A. General: Perform all rough and finish grading required to attain the elevations indicated on the Drawings. Perform finish grading to an accuracy of + 0.10 foot.
- B. Compact backfill underlying roadways, parking areas, sidewalks, structures and buildings to 95 percent of the maximum dry density. The top 12-inches of backfill shall be compacted to 98 percent of the maximum dry density.
- C. Backfilling Around Structures
 - 1. General
 - a. Remove debris from excavations before backfilling.
 - b. Do not backfill against foundation walls until so directed by the Engineer nor until all indicated perimeter insulation and/or waterproofing is in place.
 - c. Protect such insulation and/or waterproofing during filling operations.
 - d. Wherever possible, backfilling shall be simultaneous on both sides of walls to equalize lateral pressures.
 - e. Do not backfill against walls until all permanent construction is in place to furnish lateral support on both top and bottom of wall.

- f. Backfilling against walls shall take place after all the concrete in the affected members has attained the specified strengths.
- 2. Materials: Backfill material placed against structures built or encountered during the work of this Section shall be suitable fill material. No broken concrete, bricks or similar materials will be permitted as backfill.
- D. Treatment After Completion of Grading
 - 1. After grading is completed, permit no further excavation, filling or grading, except with the approval of the Engineer.
 - 2. Use all means necessary to prevent the erosion of freshly graded areas during construction and until such time as permanent drainage and erosion control measures have been installed.

3.07 EXCESS WATER CONTROL

- A. Regulations and Permits: Obtain all necessary soil erosion control permits in accordance with the Georgia Soil Erosion and Sedimentation Control Act and all pertinent rules, laws, and regulations of all applicable federal, state, county and municipal regulatory agencies.
- B. Unfavorable Weather
 - 1. Do not place, spread or roll any fill material during unfavorable weather conditions.
 - 2. Do not resume operations until moisture content and fill density are satisfactory to the Engineer.
- C. Provide berms or channels to prevent flooding of subgrade. Promptly remove all water collected in depressions.
- D. Pumping and Drainage
 - 1. Provide, maintain and use at all times during construction adequate means and devices to promptly remove and dispose of all water from every source entering the excavations or other parts of the work.
 - 2. Dewater by means which will insure dry excavations, preserve final lines and grades, do not disturb or displace adjacent soil.
 - 3. All pumping and drainage shall be done with no damage to property or structures and without interference with the rights of the public, owners of private property, pedestrians, vehicular traffic or the work of other Contractors, and in accordance with all pertinent laws, ordinances and regulations.
 - 4. Do not overload or obstruct existing drainage facilities.

3.08 SETTLEMENT

- A. The Design-Builder shall be responsible for all settlement of backfill, fills and embankments which may occur within one year after final acceptance of the Work by the Owner.
- B. The Design-Builder shall make, or cause to be made, all repairs or replacements made necessary by settlement within 30 days after receipt of written notice from the Engineer or Owner.

3.09 CLEANING

- A. Upon completion of the work of this Section, remove all rubbish, trash and debris resulting from construction operations. Remove surplus equipment and tools. Leave the site in a neat and orderly condition acceptable to the Engineer, and in conformance with Section 01710 of these Specifications.

END OF SECTION # 02200

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 02528
PAVEMENT PATCHING

PART 1 - GENERAL

1.01 (Not Used)

1.02 DESCRIPTION OF WORK

- A. The extent of pavement patching consists of the repair of all pavement removed or damaged in the course of constructing the Project.
 - 1. Pavement patching includes repair of paved roads, streets, highways, walkways, driveways, patios, slabs on grade, and parking lots together with walls, curbing, gutters and headers, and other pavements and appurtenances. Pavement referred to under this Section, refers to asphaltic, cementitious, brick, cobble or other large stone pavement materials together with underlying construction, irrespective of its composition.

1.03 JOB CONDITIONS

- A. Traffic Control: Schedule and conduct Work in a manner which will minimize inconvenience to vehicular and pedestrian traffic. Provide flaggers, barricades, warning signs, warning lights, and other warning means as appropriate.
- B. Weather Limitations: Conduct all operations during weather conditions appropriate to the Work being performed.
- C. Grade Control: Establish and maintain lines and elevations which will assure finished pavement patch having desirable appearance, function and strength.

1.04 SUBMITTALS

- A. Submit detailed material descriptions as required.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. General: For products not described below, use materials and gradations which have locally exhibited a satisfactory record of previous usage, and which for finished visible surfaces will permit obtaining appearance, color and texture reasonably matching remaining adjacent pavement of the same type.
- B. Asphalt Concrete: Bituminous plant mixture of asphalt cement and aggregates complying with Type E or F hot plant mix of Section 828 of the Georgia Department of Transportation "Standard Specifications for Road and Bridge Constructions".
- C. Graded Aggregate Base: Uniform graded aggregate material complying with Section 815 of the Georgia Department of Transportation "Standard Specifications for Road and Bridge Construction".
- D. Bituminous Prime: Cutback asphalt complying with Section 821 of the Georgia Department of Transportation "Standard Specifications for Road and Bridge Construction".

- E. Bituminous Tack Coat: Asphalt material complying with Section 413, topics 413.01 through 413.04 of the Georgia Department of Transportation "Standard Specifications for Road and Bridge Construction".
- F. Portland Cement Concrete: Concrete mix of Portland cement, aggregates, water, and air entraining admixture to produce the following properties: 3500 psi minimum compressive strength at 28 days per ASTM C39, 4 inches maximum slump per ASTM C143, and air content between 3% and 6%.
- G. Cold Mix: Uniform bituminous mixture of aggregate, asphaltic material and, if it is required, mineral filler complying with Type E or F cold mix of Section 401 of the Georgia Department of Transportation "Standard Specifications for Road and Bridge Construction".

PART 3 - EXECUTION

3.01 PAVEMENT CUTS

- A. Saw cut trench edges in paved areas to neat, straight lines before starting to break the pavement slab. Completely backfill the open half before opening the other half of pavement.

3.02 BACKFILL PLACEMENT

- A. Place trench backfill materials in layers not more than six inches compacted thickness. Commence backfill immediately after utility is installed. Complete new replacement base construction immediately after trench backfill.

3.03 INSPECTION

- A. Examine areas and conditions under which pavement patching will be conducted, giving special attention to stability of sub base. Do not proceed with pavement patching work until unsatisfactory conditions have been corrected.

3.04 PREPARATION

- A. Saw cut any ragged edges of existing pavement, or in the case of concrete work, remove existing pavement to nearest joint. Remove all loose material from underlying and adjacent surfaces.

3.05 STRENGTH AND STABILITY

- A. Use materials and construction techniques as necessary to obtain strength, stability and durability of pavement patch at least equal to that of remaining adjacent pavement of the same type. As a minimum, conform with pavement patch details, if any, required elsewhere by the Contract Documents; and where such details are not provided, accomplish pavement patching utilizing strengths, thicknesses, etc. not less than that of remaining adjacent pavement of the same type.

3.06 PLACING

- A. Construct pavement using methods and equipment in general use for the type of work being performed.
- B. Immediately after new base construction, cover pavement cut with steel plates or similar devices of sufficient thickness to span the cut without noticeable deflection. Maintain plates in place for not less than 24 hours and not more than

7 days and until the concrete base (if used) has gained sufficient strength to withstand traffic loads. Traffic may resume after installation of metal plates.

- C. Upon removal of the metal plates or similar devices, provide new pavement surface in accordance with one of the following options:
 - 1. Immediately apply new permanent pavement surface materials indicated or
 - 2. Immediately apply bituminous cold mixture over bond breaker paper over new base. Monitor performance and repair or replace materials regularly to maintain smooth traffic surface until placement of permanent pavement surface materials. At Contractor's time selection prior to substantial completion, remove cold mix and bond breaker paper and provide new permanent pavement surface materials. If performance or maintenance of cold mix patch is unsatisfactory in the opinion of the Owner or Engineer, remove materials and provide new permanent pavement surface materials within 72 hours of notice by the Owner or Engineer.
- D. Traffic control devices in lieu of cover plates are permitted for pavement patching longitudinal to the street centerline in excess of 20 feet. Use traffic barricades, warning signs and lights, flagmen, and other means as appropriate to continuously control traffic 24 hours per day. Use devices such that at least 12 feet wide, one-way through traffic access is provided at all times. Upon removal of traffic control devices, install permanent pavement surface.
- E. Contractor assumes all responsibility for maintaining repairing and or replacing concrete base that may be damaged during curing period.
- F. For existing surface of Portland cement concrete, furnish new Portland cement concrete structure thickness, including base and pavement surface, of not less than eight inches; except for driveways and sidewalks which shall be not less than four inches thick.
- G. Provide not less than eight inches thickness of new graded aggregate base for replacement of asphalt concrete pavement at driveways, sidewalks and parking lots.
- H. For repair of asphalt concrete pavement, clean base and adjacent surfaces and apply bituminous tack coat or bituminous prime (as appropriate) to such surfaces before placing new asphalt concrete surface.

3.07 FINISH

- A. Accomplish pavement patching using materials and techniques which result in visible, finished surfaces having appearance, color, and texture reasonably matching remaining adjacent pavement of the same type. Do not permit the finished surface to have dips, objectionable roughness or discontinuity or non-draining areas. Do not create any unsafe pavement condition.

3.08 REPAIRS

- A. If pavement patch or adjacent pavement settles or shows evidence of other distress resulting from the Work, cut pavement out, repair sub grade, and reconstruct patch. Do not place additional pavement material on top of

unsatisfactory previously repaired surfaces. At expense of Contractor, repair any pavement which he damages beyond that minimum amount necessary to construct the Work.

END OF SECTION # 02528

S228 – FULTON INDUSTRIAL BLVD. NEAR SHIRLEY DRIVE SEWER RELOCATION
SECTION NO. 02575
REMOVING AND REPLACING PAVEMENT

PART 1 - GENERAL

1.01 SCOPE

- A. The work to be performed under this Section shall consist of removing and replacing existing pavement, sidewalks and curbs in paved areas where such have been removed for construction of utilities and appurtenances.
- B. Existing pavement, sidewalks and curbs shall be replaced to the current County standards or to match existing, whichever is more stringent.

1.02 SUBMITTALS

- A. If required by the County or Engineer, provide certificates stating that materials supplied comply with Specifications. Certificates shall be signed by the asphalt producer and the Contractor.

1.03 CONDITIONS

- A. Weather Limitations
 - 1. Apply bituminous tack coat only when the ambient temperature in the shade has been at least 50 degrees F for 12 hours immediately prior to application.
 - 2. Do not conduct paving operations when surface is wet or contains excess of moisture which would prevent uniform distribution and required penetration.
 - 3. Construct asphaltic courses only when atmospheric temperature in the shade is above 40 degrees F, when the underlying base is dry and when weather is not rainy.
 - 4. Place base course when air temperature is above 35 degrees F and rising.
- B. Grade Control: Establish and maintain the required lines and grades for each course during construction operations.

PART 2 - PRODUCTS

2.01 MATERIALS AND CONSTRUCTION

- A. Graded Aggregate Base Course: Graded aggregate base course shall be of uniform quality throughout and shall meet the requirements of Section 815.01 of the Georgia Department of Transportation Standard Specifications.
- B. Black Base: Black base course shall be of uniform quality throughout and shall conform to the requirements of Section 828 of the Georgia Department of Transportation Standard Specifications.
- C. Bituminous Tack Coat: The bituminous tack coat shall conform to the requirements of Section 400 of the Georgia Department of Transportation Standard Specifications.
- D. Surface Course: The surface course for all asphaltic concrete pavement shall conform to the requirements of Section 400, Type "E" of the Georgia Department of Transportation Standard Specifications.

- E. Concrete: Provide concrete and reinforcing for concrete pavement or base courses in accordance with the requirements of the Georgia Department of Transportation Standard Specifications, Section 430. Concrete shall be of the strength classifications shown on the Drawings.
- F. Special Surfaces: Where driveways or roadways are disturbed or damaged which are constructed of specialty type surfaces, e.g., brick or stone, these driveways and roadways shall be restored utilizing similar, if not original, materials. Where the nature of these surfaces dictate, a specialty contractor shall be used to restore the surfaces to their previous or better condition. Special surfaces shall be removed and replaced to the limits to which they were disturbed.

2.02 TYPES OF PAVEMENTS

- A. General: All existing pavement removed, destroyed or damaged by construction shall be replaced with the same type and thickness of pavement as that existing prior to construction, unless otherwise directed by the Engineer. Materials, equipment and construction methods used for paving work shall conform to the Georgia Department of Transportation specifications applicable to the particular type required for replacement, repair or new pavements.
- B. Aggregate Base: Aggregate base shall be constructed in accordance with the requirements of Section 310 of the Georgia Department of Transportation Standard Specifications. The maximum thickness to be laid in a single course shall be 6-inches compacted. If the design thickness of the base is more than 6-inches, it shall be constructed in two or more courses of approximate equal thickness. After the material placed has been shaped to line, grade and cross-section, it shall be rolled until the course has been uniformly compacted to at least 100 percent of the maximum dry density when Group 2 aggregate is used, or to at least 98 percent of maximum dry density when Group 1 aggregate is used.
- C. Concrete Pavement: Concrete pavement or base courses shall be replaced with concrete. The surface finish of the replaced concrete pavement shall conform to that of the existing pavement. The surface of the replaced concrete base course shall be left rough. The slab depth shall be equivalent to the existing concrete pavement or base course, but in no case less than 6-inches thick. Transverse and longitudinal joints removed from concrete pavement shall be replaced at the same locations and to the same types and dimensions as those removed. Concrete pavements or concrete base courses shall be reinforced.
- D. Asphaltic Concrete Base, Bituminous Tack Coat and Surface Course: Asphaltic concrete base, tack coat and surface course construction shall conform to Georgia Department of Transportation Standard Specifications, Section 400. The pavement mixture shall not be spread until the designated surface has been previously cleaned and prepared, is intact, firm, properly cured, dry and the tack coat has been applied. Apply and compact the base in maximum layer thickness by asphalt spreader equipment of design and operation approved by the Engineer. After compaction, the black base shall be smooth and true to established profiles and sections. Apply and compact the surface course in a manner approved by the Engineer. Immediately correct any high, low or defective areas by cutting out the course, replacing with fresh hot mix, and immediately compacting to conform and thoroughly bond to the surrounding area.

- E. Surface Treatment Pavement: Bituminous penetration surface treatment pavement shall be replaced with a minimum thickness of 1-inch conforming to Section 424, Georgia Department of Transportation Standard Specifications.
- F. Gravel Surfaces: Existing gravel road, drive and parking area replacement shall meet the requirements of graded aggregate base course. This surfacing may be authorized by the Engineer as a temporary surface for paved streets until replacement of hard surfaced pavement is authorized.
- G. Temporary Measures: During the time period between pavement removal and complete replacement of permanent pavement, maintain highways, streets and roadways by the use of steel running plates anchored to prevent movement. The backfill above the pipe shall be compacted, as specified in Section 02225 of these Specifications, up to the existing pavement surface to provide support for the steel running plates. All pavement shall be replaced within seven calendar days of its removal.

PART 3 - EXECUTION

3.01 LOCATIONS FOR PAVEMENT REPLACEMENT

- A. Pavement Replacement (see Detail No. 905) shall be used for all pavement replacement.
- B. "Graded Aggregate" pavement repair shall be used only where approved by the Engineer.

3.02 REMOVING PAVEMENT

- A. General: Remove existing pavement as necessary for installing the pipe line and appurtenances.
- B. Marking: Before removing any pavement, mark the pavement neatly paralleling pipe lines and existing street lines. Space the marks the width of the trench.
- C. Breaking: Break asphalt pavement along the marks using pavement shearing equipment, jack hammers or other suitable tools. Break concrete pavement along the marks by scoring with a rotary saw and breaking below the score by the use of jack hammers or other suitable tools.
- D. Machine Pulling: Do not pull pavement with machines until the pavement is completely broken and separated from pavement to remain.
- E. Damage to Adjacent Pavement: Do not disturb or damage the adjacent pavement. If the adjacent pavement is disturbed or damaged, remove and replace the damaged pavement.
- F. Sidewalk: Remove and replace any sidewalks disturbed by construction for their full width and to the nearest undisturbed joint.
- G. Curbs: Tunnel under or remove and replace any curb disturbed by construction to the nearest undisturbed joint.

3.03 REPLACING PAVEMENT

- A. Preparation of Subgrade: Upon completion of backfilling and compaction of the backfill, arrange to have the compaction tested by an independent testing laboratory approved by the Engineer. After compaction testing has been satisfactorily completed, replace all pavements, sidewalks and curbs removed.

1. The existing street pavement or surface shall be removed along the lines of the work for the allowable width specified for the trench or structure. After the installation of the sewerage or water works facilities and after the backfill has been compacted suitably, the additional width of pavement to be removed, as shown on the Drawings, shall be done immediately prior to replacing the pavement.
2. Trench backfill shall be compacted for the full depth of the trench as specified in Section 02225 of these Specifications.
3. Temporary trench backfill along streets and driveways shall include 6-inches of crushed stone or cherty clay as a temporary surfacing of the trenches. This temporary surface shall be maintained carefully at grade and dust-free by the Contractor until the backfill of the trench has thoroughly compacted in the opinion of the Engineer and permission is granted to replace the street pavement.
4. When temporary crushed stone or chert surface is considered by the Engineer to be sufficient surface for gravel pavement, the surface shall be graded smooth and to an elevation that will make the final permanent surfacing level with the adjacent surfacing that was undisturbed.

A. Pavement Replacement

1. Prior to replacing pavement, make a final cut in concrete pavement 9-inches back from the edge of the damaged pavement with a concrete saw. Remove asphalt pavement 9-inches back from the edge of the damaged pavement using pavement shearing equipment, jack hammers or other suitable tools. Pavement cuts shall be parallel or perpendicular to the road centerline as much as practical. On parallel installations the final cut shall be long and straight and consistent.
2. Replace all street and roadway pavement as shown on the Drawings. Replace driveways, sidewalks and curbs with the same material, to nearest existing undisturbed construction joint and to the same dimensions as those existing.
3. If the temporary crushed stone or chert surface is to be replaced, the top 6-inches shall be removed and the crushed stone surfacing for unpaved streets or the base for the bituminous surface shall be placed.
4. Following this preparation, the chert or crushed stone base shall be primed with a suitable bituminous material and surfaced with the proper type of bituminous surface treatment.
5. Where the paved surface is to be replaced with asphaltic concrete pavement, concrete pavement or with a concrete base and a surface course, the temporary chert or crushed stone surface and any necessary backfill material, additional existing paving and new excavation shall be removed to the depth and width shown on the Drawings. All edges of the existing pavement shall be cut to a straight, vertical edge. Care shall be used to get a smooth joint between the old and new pavement and to produce an even surface on the completed street. Concrete base slabs and crushed stone bases, if required, shall be placed and allowed to cure for three days before bituminous concrete surface courses are applied.

Expansion joints, where applicable, shall be replaced in a manner equal to the original joint.

6. Where driveways or roadways, constructed of specialty type surfaces, e.g., brick or stone are disturbed or damaged, these driveways and roadways shall be restored utilizing similar materials. Where the nature of these surfaces dictate, a specialty contractor shall be used to restore the surfaces to their previous or better condition. Special surfaces shall be removed and replaced to the limits to which they were disturbed.

B. Pavement Resurfacing

1. Certain areas to be resurfaced are specified or noted on the Drawings. Where pavement to be resurfaced has been damaged with potholes, the Contractor shall remove all existing loose pavement material and fill the hole with black base, as specified, to the level of the existing pavement. After all pipe line installations are complete and existing pavement has been removed and replaced along the trench route, apply tack coat and surface course as specified.
2. Resurfacing limits shall be perpendicular to the road centerline. The limits of resurfacing shall be 10 feet beyond the edge of the pavement replacement on the main road being resurfaced, and to the point of tangency of the pavement on the side streets.

- C. Pavement Striping:** Pavement striping removed or paved over shall be replaced with the same type, dimension and material as original unless directed otherwise by the Engineer.

3.04 SIDEWALK AND CURB REPLACEMENT

A. Construction

1. All concrete sidewalks and curbs shall be replaced with concrete.
2. Prefomed joints shall be 1/2-inch thick, conforming to the latest edition of AASHTO M 59 for sidewalks and AASHTO M 123 for curbs.
3. Forms for sidewalks shall be of wood or metal, shall be straight and free from warp, and shall be of sufficient strength, when in place, to hold the concrete true to line and grade without springing or distorting.
4. Forms for curbs shall be metal and of an approved section. They shall be straight and free from distortions, showing no vertical variation greater than 1/8-inch in 10 feet and no lateral variation greater than 1/4-inch in 10 feet from the true plain surface on the vertical face of the form. Forms shall be of the full depth of the structure and constructed such to permit the inside forms to be securely fastened to the outside forms.
5. Securely hold forms in place true to the lines and grades indicated on the Drawings or to match existing.
6. Wood forms may be used on sharp turns and for special sections, as approved by the Engineer. Where wooden forms are used, they shall be free from warp and shall be the nominal depth of the structure.
7. All mortar and dirt shall be removed from forms and all forms shall be thoroughly oiled or wetted before any concrete is deposited.

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- A. When a section is removed, the existing sidewalk or curb shall be cut to a neat line, perpendicular to both the centerline and the surface of the concrete slab. Existing concrete shall be cut along the nearest existing construction joints; if such joints do not exist, the cut shall be made five feet back.
- B. Existing concrete sidewalks and curbs that have been cut and removed for construction purposes shall be replaced with the same width and surface as the portion removed. Sidewalks shall have a minimum uniform thickness of 4-inches. The new work shall be neatly jointed to the existing concrete so that the surface of the new work shall form an even, unbroken plane with the existing surfaces.
- C. The subgrade shall be formed by excavating to a depth equal to the thickness of the concrete, plus 2-inches. Subgrade shall be of such width as to permit the proper installation and bracing of the forms. Subgrades shall be compacted by hand tamping or rolling. Soft, yielding or unstable material shall be removed and backfilled with satisfactory material. Place 2-inches of porous crushed stone under all sidewalks and curbs and compacted thoroughly, then finish to a smooth, unyielding surface at proper line, grade and cross section.
- D. Joint for Curbs
1. Joints shall be constructed to match existing and as specified. Construct joints true to line with their faces perpendicular to the surface of the structure and within 1/4-inch of their designated position.
 2. Thoroughly spade and compact the concrete at the faces of all joints filling all voids.
 3. Install expansion joint materials at the point of curve at all street returns. Install expansion joint material behind the curb at abutment to sidewalks and adjacent structures.
 4. Place contraction joints every 10 feet along the length of the curbs and gutters. Form contraction joints using steel templates or division plates which conform to the cross section of the structure. Leave the templates in place until the concrete has set sufficiently to hold its shape, but remove them while the forms are still in place. Contraction joint templates or plates shall not extend below the top of the steel reinforcement or they shall be notched to permit the reinforcement to be continuous through the joint. Contraction joints shall be a minimum of 1-1/2-inches deep.
- E. Expansion joints shall be required to replace any removed expansion joints or in new construction wherever shown on the Drawings. Expansion joints shall be true and even, shall present a satisfactory appearance, and shall extend to within 1/2-inch of the top of finished concrete surface.
- F. Finishing
1. Strike off the surface with a template and finish the surface with a wood float using heavy pressure, after which, contraction joints shall be made and the surface finished with a wood float or steel trowel.
 2. Finish the face of the curbs at the top and bottom with an approved finishing tool of the radius to match existing.
 3. Finish edges with an approved finishing tool having a 1/4-inch radius.
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4. Provide a final broom finish by lightly combing with a stiff broom after troweling is complete.
 5. The finished surface shall not vary more than 1/8-inch in 10 feet from the established grade.
- G. Driveway and Sidewalk Ramp Openings
1. Provide driveway openings of the widths and at the locations indicated on the Drawings and as directed by the Engineer or to match existing.
 2. Provide sidewalk ramp openings to match existing in conformance with the applicable regulations and as directed by the Engineer.
- H. Concrete shall be suitably protected from freezing and excessive heat. It shall be kept covered with burlap or other suitable material and kept wet until cured. Provide necessary barricades to protect the work. All damage caused by people, vehicles, animals, rain, the Contractor's operations and the like shall be repaired by the Contractor, at no additional expense to the County.

3.05 MAINTENANCE

- A. The Contractor shall maintain the surfaces of roadways built and pavements replaced until the acceptance of the Project. Maintenance shall include replacement, scraping, reshaping, wetting and rerolling as necessary to prevent raveling of the road material, the preservation of reasonably smooth surfaces and the repair of damaged or unsatisfactory surfaces, to the satisfaction of the Engineer. Maintenance shall include sprinkling as may be necessary to abate dust from the gravel surfaces.

3.06 SUPERVISION AND APPROVAL

- A. Pavement restoration shall meet the requirements of the regulatory agency responsible for the pavement. Obtain agency approval of pavement restorations before requesting final payment.
- B. Obtain the Engineer's approval of restoration of pavement, such as private roads and drives, that are not the responsibility of a regulatory agency.
- C. Complete pavement restoration as soon as possible after backfilling.
- D. Failure of Pavement: Should any pavement restoration or repairs fail or settle during the life of the Contract, including the bonded period, promptly restore or repair defects.

3.07 CLEANING

- A. The Contractor shall remove all surplus excavation materials and debris from the street surfaces and rights-of-way and shall restore street, roadway or sidewalk surfacing to its original condition.

END OF SECTION # 02575

